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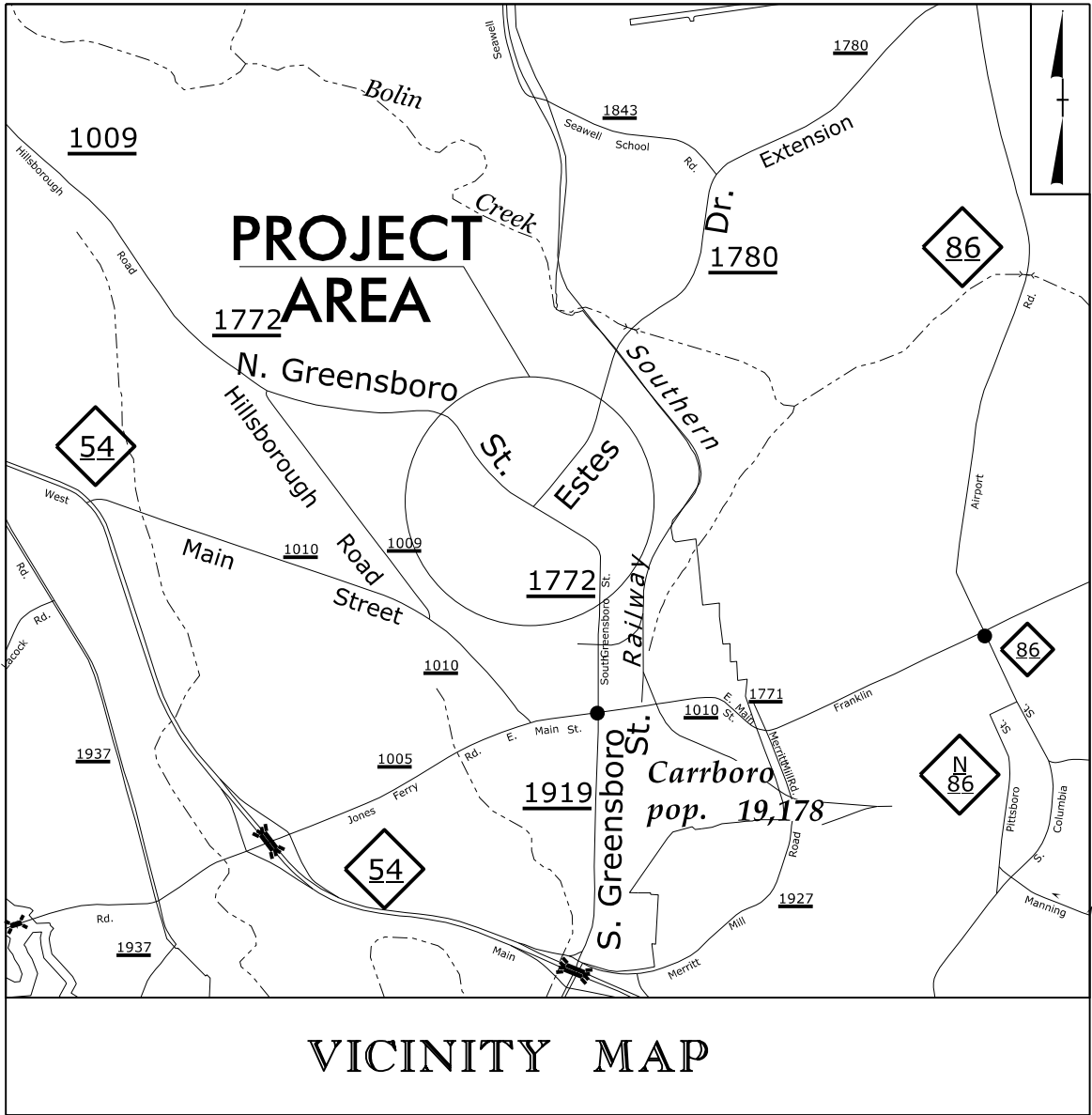
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T.I.P. NO.	SHEET NO.
U-5846	UC-1

TIP PROJECT: U-5846

CONTRACT: DG00458

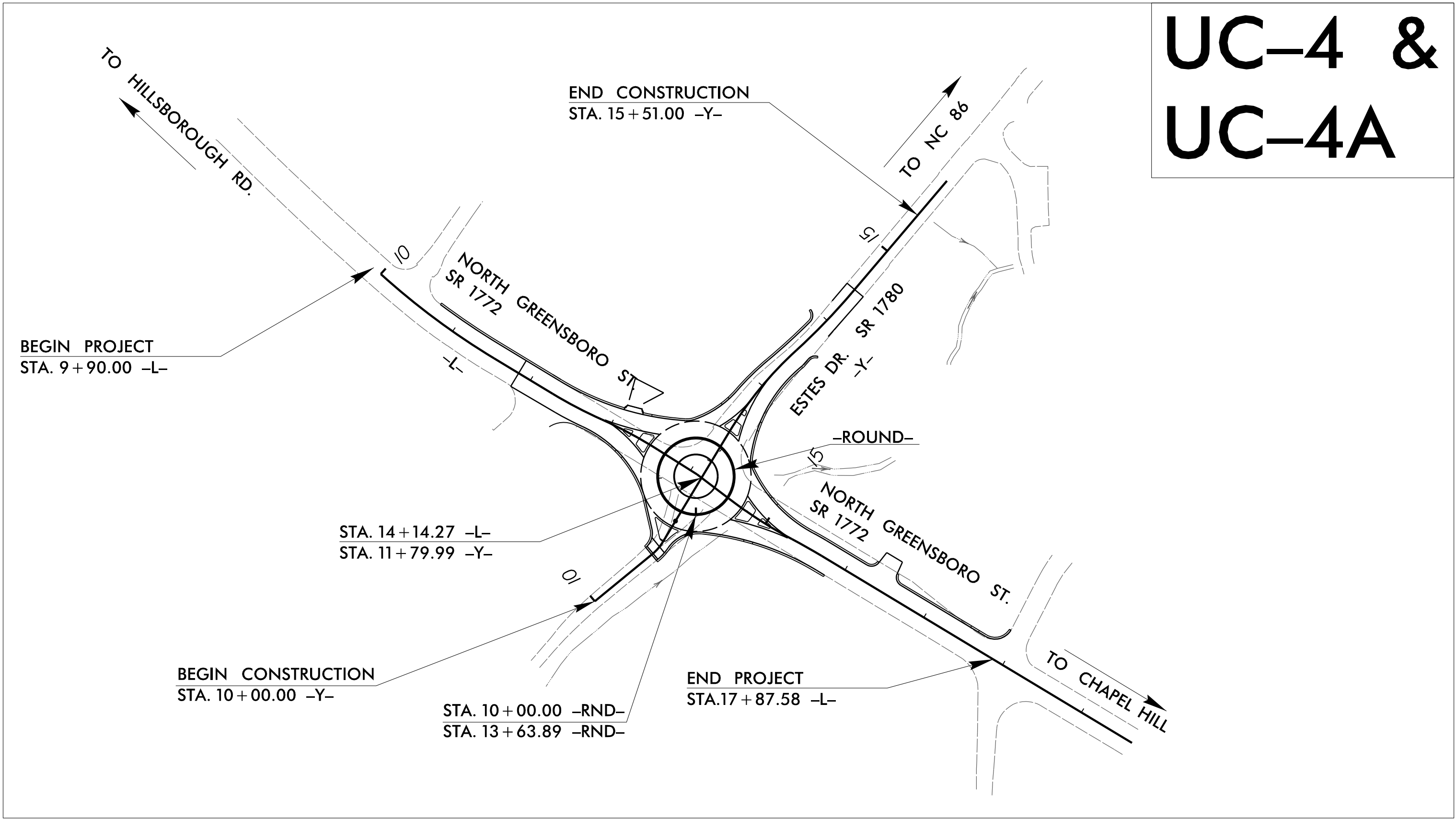


STATE OF NORTH CAROLINA  
DIVISION OF HIGHWAYS

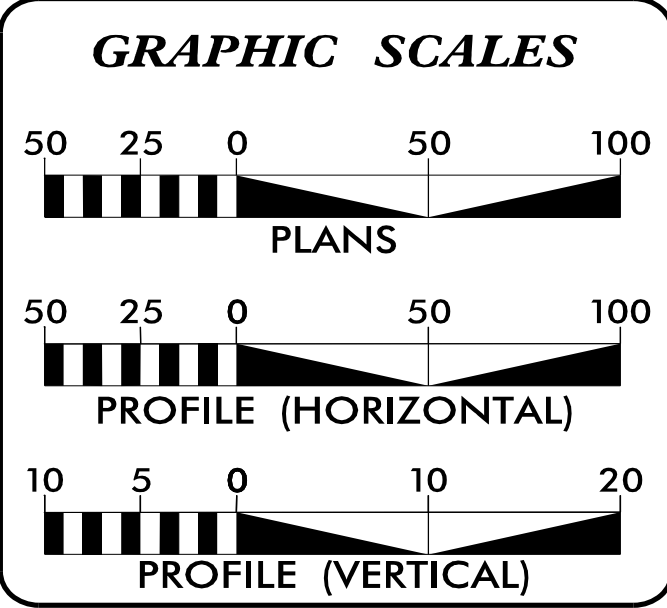
UTILITY CONSTRUCTION PLANS  
ORANGE COUNTY

LOCATION: SR 1772 (GREENSBORO STREET) AT SR 1780 (ESTES DRIVE)  
IN CARRBORO. CONSTRUCT ROUNDABOUT.

TYPE OF WORK: WATER AND SANITARY SEWER RELOCATION



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SHEET NO.:	DESCRIPTION:
UC-1	TITLE SHEET
UC-2	UTILITY SYMBOLOGY
UC-3	NOTES
UC-3A THRU UC-3F	DETAILS
UC-4 & UC-4A	UTILITY CONSTRUCTION PLAN SHEET
UC-5 & UC-6	UTILITY CONSTRUCTION PROFILE SHEET

WATER AND SEWER OWNERS ON PROJECT
(A) WATER - ORANGE WATER AND SEWER AUTHORITY(OWASA)
(B) SANITARY SEWER - ORANGE WATER AND SEWER AUTHORITY(OWASA)

PREPARED IN THE OFFICE OF
<b>SEPI</b> ENGINEERING & CONSTRUCTION
1025 Wade Avenue Raleigh, NC 27605 Tel: 919-789-9977 Fax: 919-789-9591 License: C-2197
Kelly Hayes, PE, PLS Justin Beard, PE
CONSULTANT CONTACT #1 CONSULTANT CONTACT #2

SEAL

8/14/2018

NORTH CAROLINA PROFESSIONAL ENGINEER'S SEAL  
KELLY E. HAYES  
020160

DocuSigned by:  
Kelly E. Hayes  
865986972502419

DIVISION OF HIGHWAYS UTILITIES UNIT
1555 MAIL SERVICES CENTER RALEIGH NC 27699-1555 PHONE (919) 707-6690 FAX (919) 250-4151
Donna Jackson, PE Tucker Martin, PE Tanga Sampson
UTILITIES REGIONAL ENGINEER UTILITIES ENGINEER UTILITIES COORDINATOR

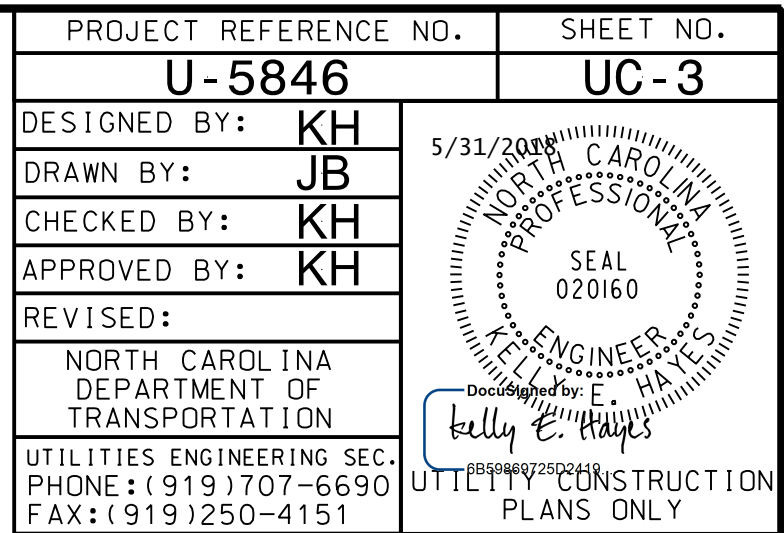
For Existing Utilities

Utility Line Drawn from Record \_\_\_\_\_  
(Type as Shown)

Designated Utility Line \_\_\_\_\_  
(Type as Shown)



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PROJECT SPECIFIC NOTES:

1. THE PROPOSED UTILITY CONSTRUCTION SHALL MEET THE APPLICABLE REQUIREMENTS OF THE NC DEPARTMENT OF TRANSPORTATION'S "STANDARD SPECIFICATIONS FOR ROADS AND STRUCTURES" DATED JANUARY 2018.

2. THE EXISTING UTILITIES BELONG TO ORANGE WATER AND SEWER AUTHORITY (OWASA) IS A UTILITY OWNER.

3. ALL WATER LINES TO BE INSTALLED WITHIN COMPLIANCE OF THE RULES AND REGULATIONS OF THE NORTH CAROLINA DEPARTMENT OF ENVIRONMENTAL QUALITY, DIVISION OF WATER RESOURCES, PUBLIC WATER SUPPLY SECTION.

ALL SEWER LINES TO BE INSTALLED WITHIN COMPLIANCE OF THE RULES AND REGULATIONS OF THE NORTH CAROLINA DEPARTMENT OF ENVIRONMENTAL QUALITY, DIVISION OF WATER RESOURCES, WATER QUALITY SECTION. PERFORM ALL WORK IN ACCORDANCE WITH THE APPLICABLE PLUMBING CODES.

4. THE UTILITY OWNER OWNS THE EXISTING UTILITY FACILITIES AND WILL OWN THE NEW UTILITY FACILITIES AFTER ACCEPTANCE BY THE DEPARTMENT. THE DEPARTMENT OWNS THE CONSTRUCTION CONTRACT AND HAS ADMINISTRATIVE AUTHORITY. COMMUNICATIONS AND DECISIONS BETWEEN THE CONTRACTOR AND UTILITY OWNER ARE NOT BINDING UPON THE DEPARTMENT OR THIS CONTRACT UNLESS AUTHORIZED BY THE ENGINEER. AGREEMENTS BETWEEN THE UTILITY OWNER AND CONTRACTOR FOR THE WORK THAT IS NOT PART OF THIS CONTRACT OR IS SECONDARY TO THIS CONTRACT ARE ALLOWED, BUT ARE NOT BINDING UPON THE DEPARTMENT.

5. PROVIDE ACCESS FOR THE DEPARTMENT PERSONNEL AND THE OWNER'S REPRESENTATIVES TO ALL PHASES OF CONSTRUCTION. NOTIFY DEPARTMENT PERSONNEL AND THE UTILITY OWNER TWO WEEKS PRIOR TO COMMENCEMENT OF ANY WORK AND ONE WEEK PRIOR TO SERVICE INTERRUPTION. KEEP UTILITY OWNERS' REPRESENTATIVES INFORMED OF WORK PROGRESS AND PROVIDE OPPORTUNITY FOR INSPECTION OF CONSTRUCTION AND TESTING.

7. MAKE FINAL CONNECTIONS OF THE NEW WORK TO THE EXISTING SYSTEM WHERE INDICATED ON THE PLANS, AS REQUIRED TO FIT THE ACTUAL CONDITIONS, OR AS DIRECTED.

8. MAKE CONNECTIONS BETWEEN EXISTING AND PROPOSED UTILITIES AT TIMES MOST CONVENIENT TO THE PUBLIC, WITHOUT ENDANGERING THE UTILITY SERVICE, AND IN ACCORDANCE WITH THE UTILITY OWNER'S REQUIREMENTS. MAKE CONNECTIONS ON WEEKENDS, AT NIGHT, AND ON HOLIDAYS IF NECESSARY.

9. ALL UTILITY MATERIALS SHALL BE APPROVED PRIOR TO DELIVERY TO THE PROJECT. SEE 1500-7, " SUBMITTALS AND RECORDS" IN SECTION 1500 OF THE STANDARD SPECIFICATIONS.

SEE OWASA STANDARD DETAILS  
ON SHEETS UC-3A THRU UC-3F

2. PROPOSED SANITARY SEWER SHALL BE PC (PRESSURE CLASS) 350 D.I. (DUCTILE IRON) PIPE AND FITTINGS WITH PIPE INTERIOR PROTECTIVE COATINGS.

3. CONTRACTOR'S ATTENTION IS DIRECTED TO SECTIONS 102, 107, AND 1550 OF THE STANDARD SPECIFICATIONS CONCERNING TRENCHLESS INSTALLATION. IT IS CONTRACTOR'S RESPONSIBILITY TO HAVE BORE DESIGNED AND SEALED BY A LICENSED NORTH CAROLINA PROFESSIONAL ENGINEER. NO DAMAGE IS ALLOWED TO RIVER, WETLANDS, OR BUFFER ZONES.

4. CONCRETE THRUST BLOCKS (i.e. THRUST COLLAR & BLOCKING) SHOWN ON EXISTING OR PROPOSED UTILITY LINES ARE INCIDENTAL ITEMS, MEASUREMENT WILL NOT BE DONE AND THE ITEMS WILL BE INCIDENTAL TO OTHER CONTRACT PAY ITEMS. SEE DETAILS 512.08 (SHEETS 1 AND 2) AND DETAIL 512.09.

5. THE CONTRACTOR SHALL COORDINATE ISOLATION OF THE EXISTING WATER MAINS AND SANITARY SEWER MAINS FOR TIE-INS WITH UTILITY OWNER. CALL NICK PARKER AT 919-537-4201. IF TEMPORARY SHUT DOWN OF UTILITY IS REQUIRED, THE CONTRACTOR WILL COORDINATE THIS SHUT DOWN WITH UTILITY OWNERS IN A MANNER THAT IS MOST CONVENIENT FOR CUSTOMERS AND UTILITY OWNER.

6. INSTALL WATERLINES WITH MINIMUM 42" OF COVER TO FINISHED GRADE UNLESS DIRECTED OR APPROVED.



## PROJECT TYPICAL DETAILS



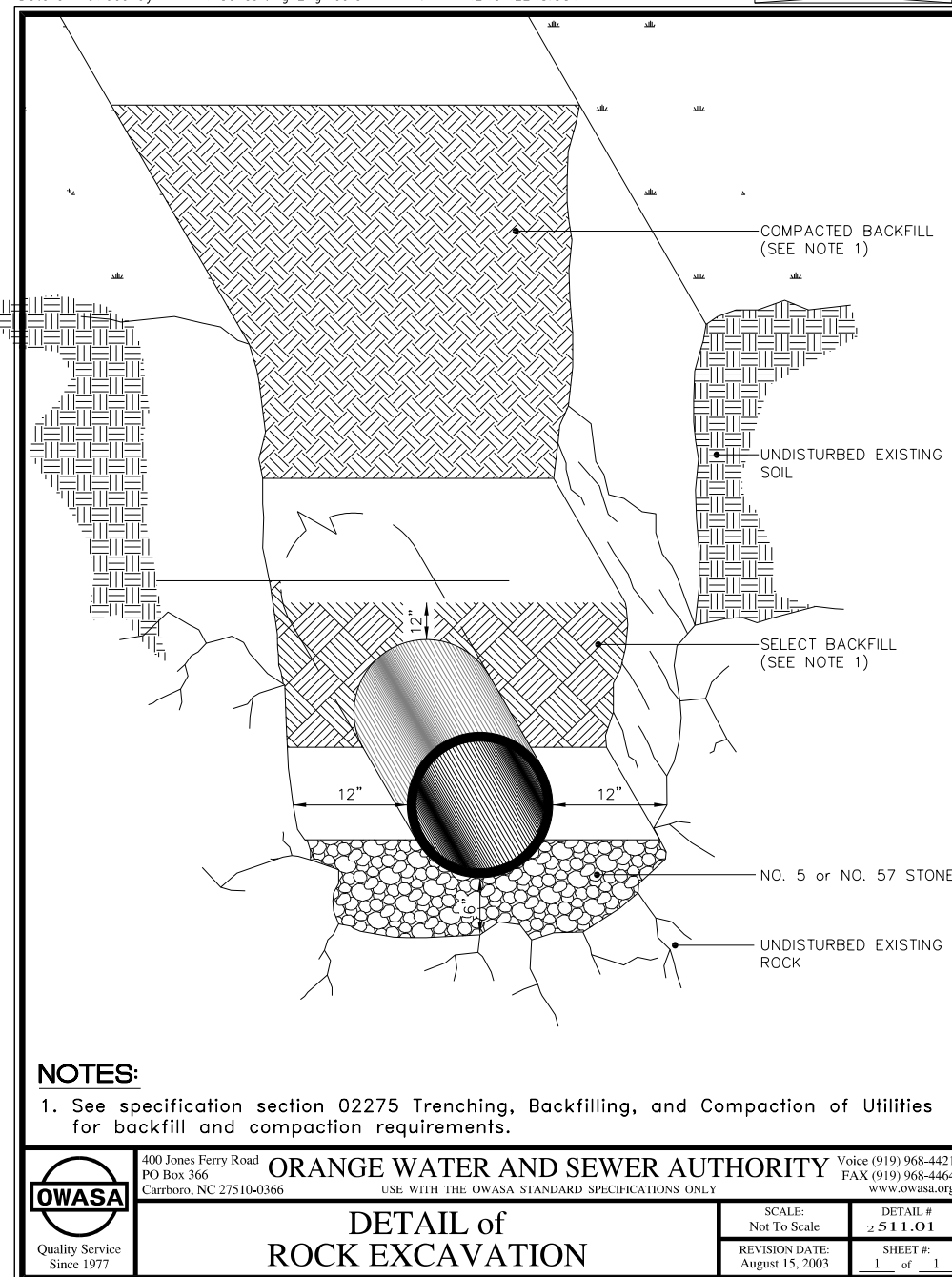
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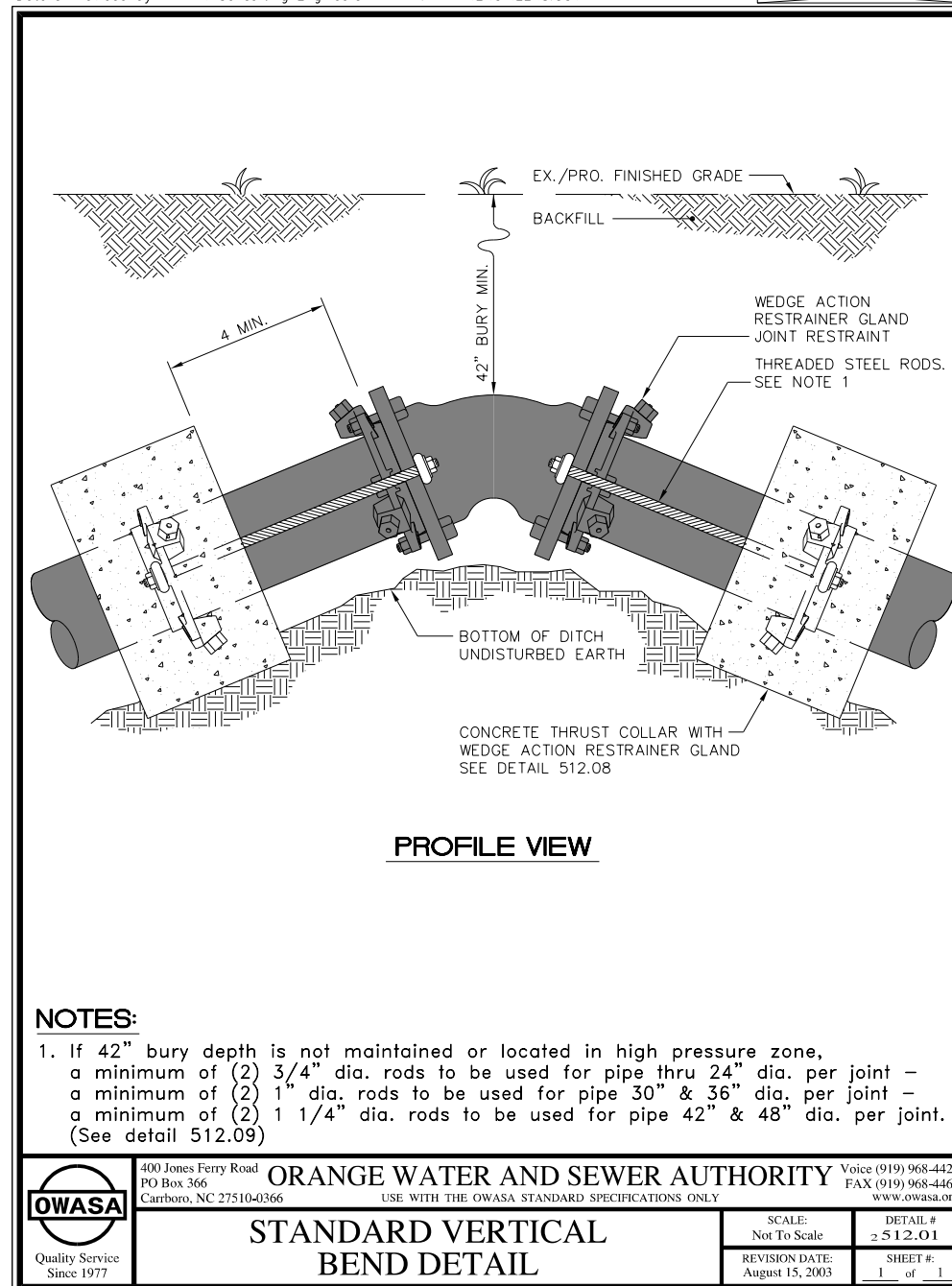
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U-5846		UC-3A
DESIGNED BY:	<div>5/30/2018</div> <div>A circular professional engineer seal for Kelly E. Hays, No. 020160, State of North Carolina. The seal is stamped in blue ink. The text around the perimeter reads "NORTH CAROLINA PROFESSIONAL ENGINEER". The center contains the name "KELLY E. HAYS" and the number "020160". There is a handwritten signature "Kelly E. Hays" over the seal.</div>	
DRAWN BY:		
CHECKED BY:		
APPROVED BY:		
REVISED:	NORTH CAROLINA DEPARTMENT OF TRANSPORTATION	
UTILITIES ENGINEERING SEC. PHONE: (919) 707-6690 FAX: (919) 250-4151		
UTILITY CONSTRUCTION PLANS ONLY		

## UTILITY CONSTRUCTION

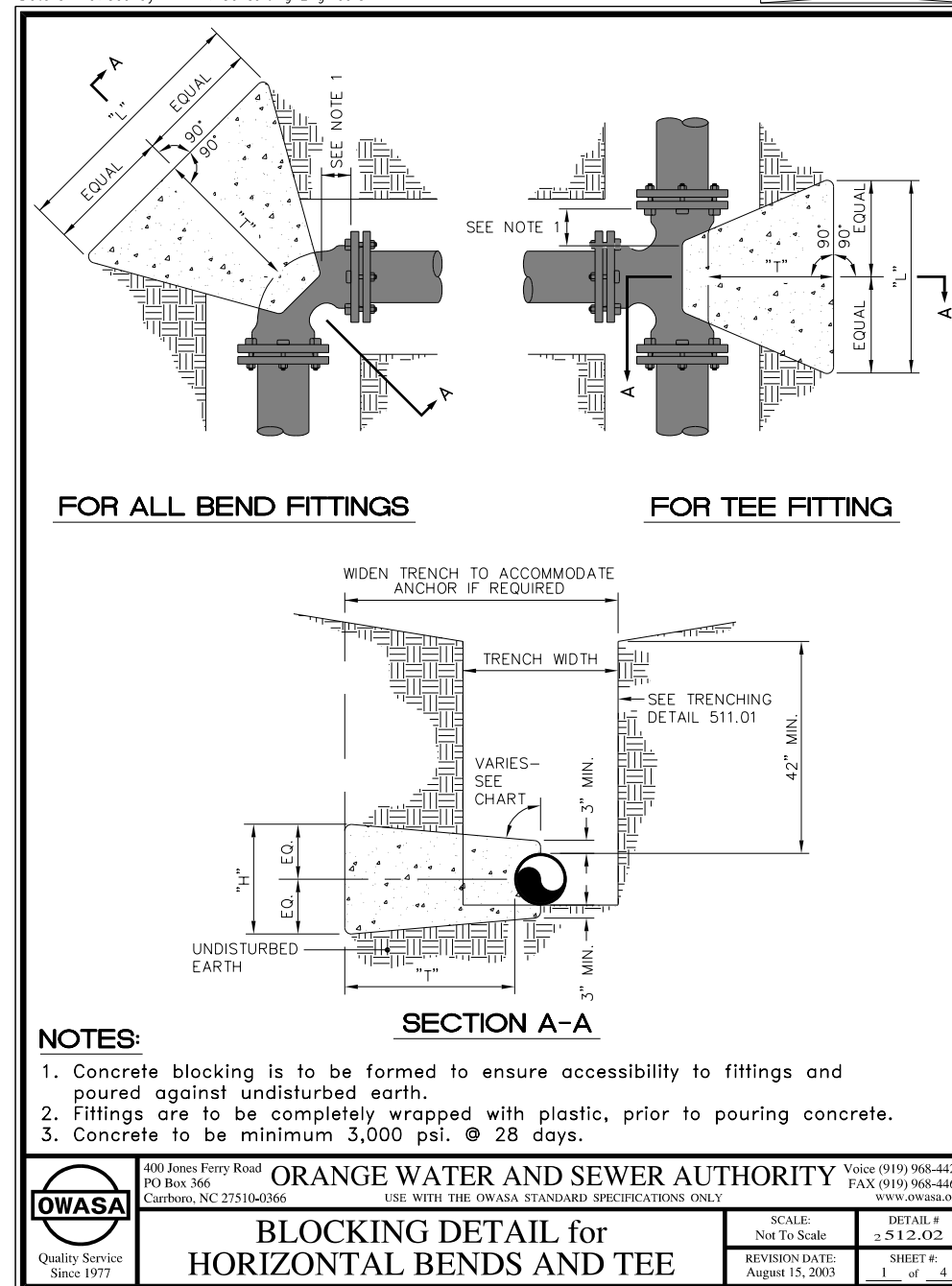
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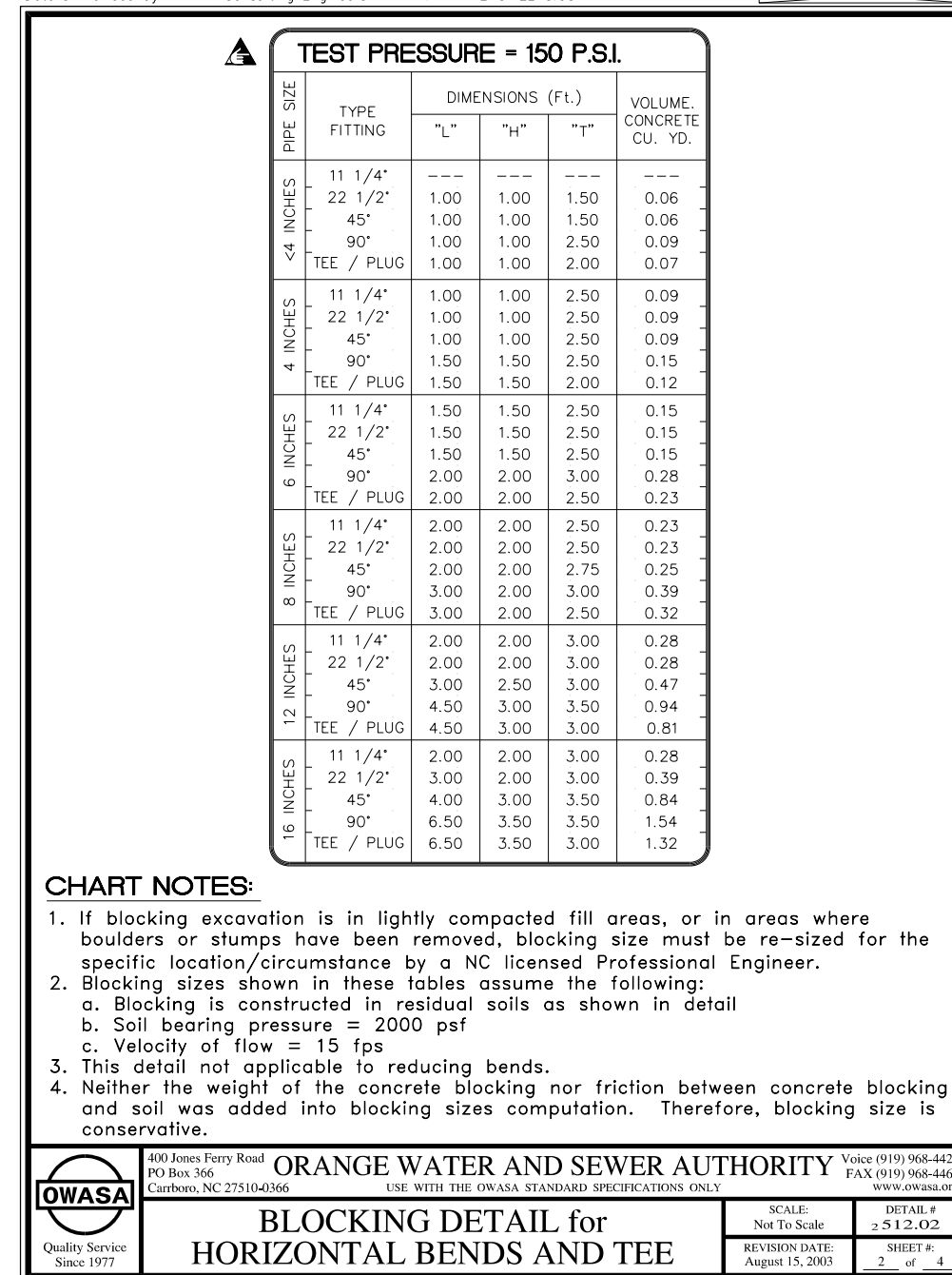
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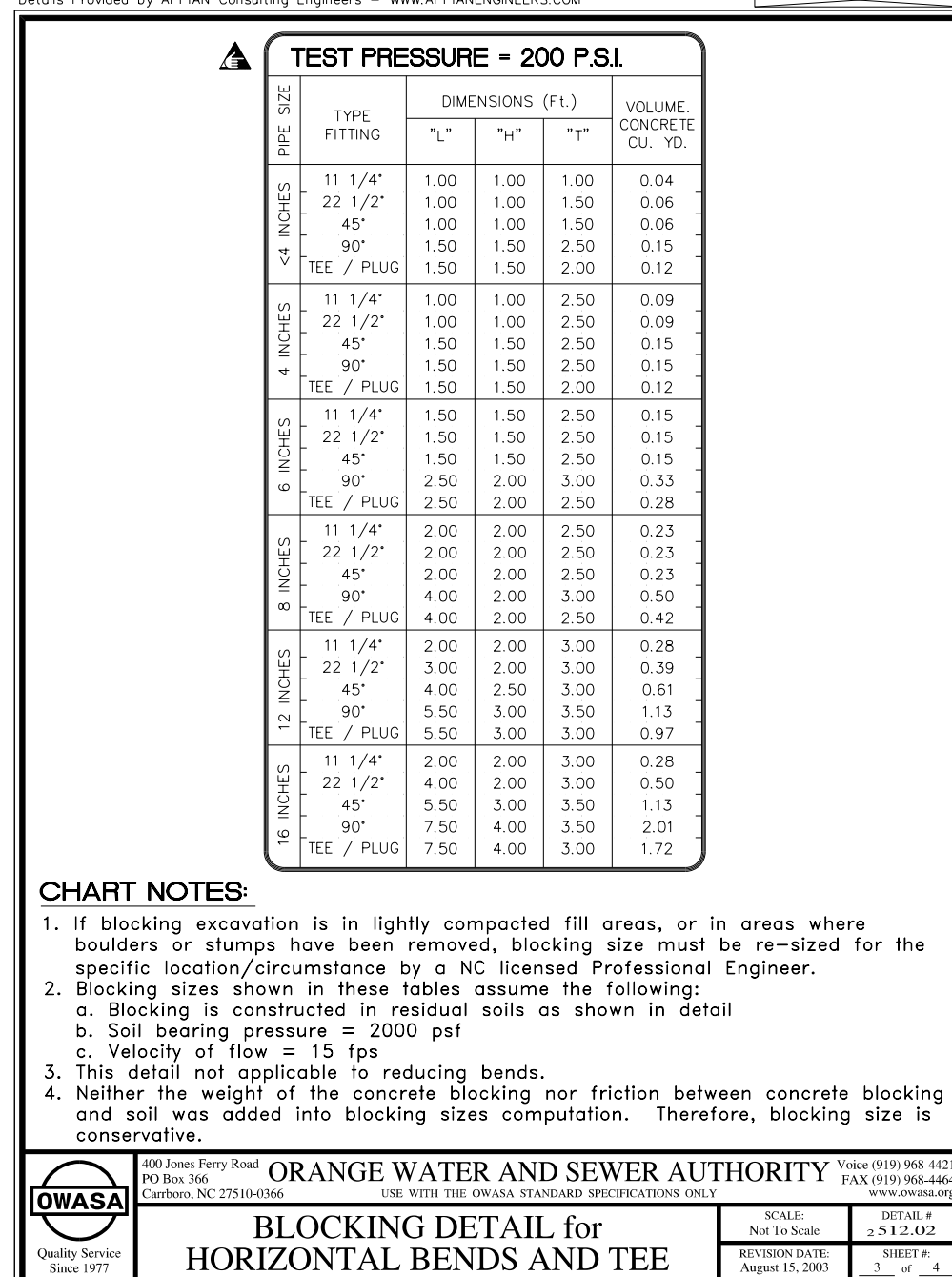
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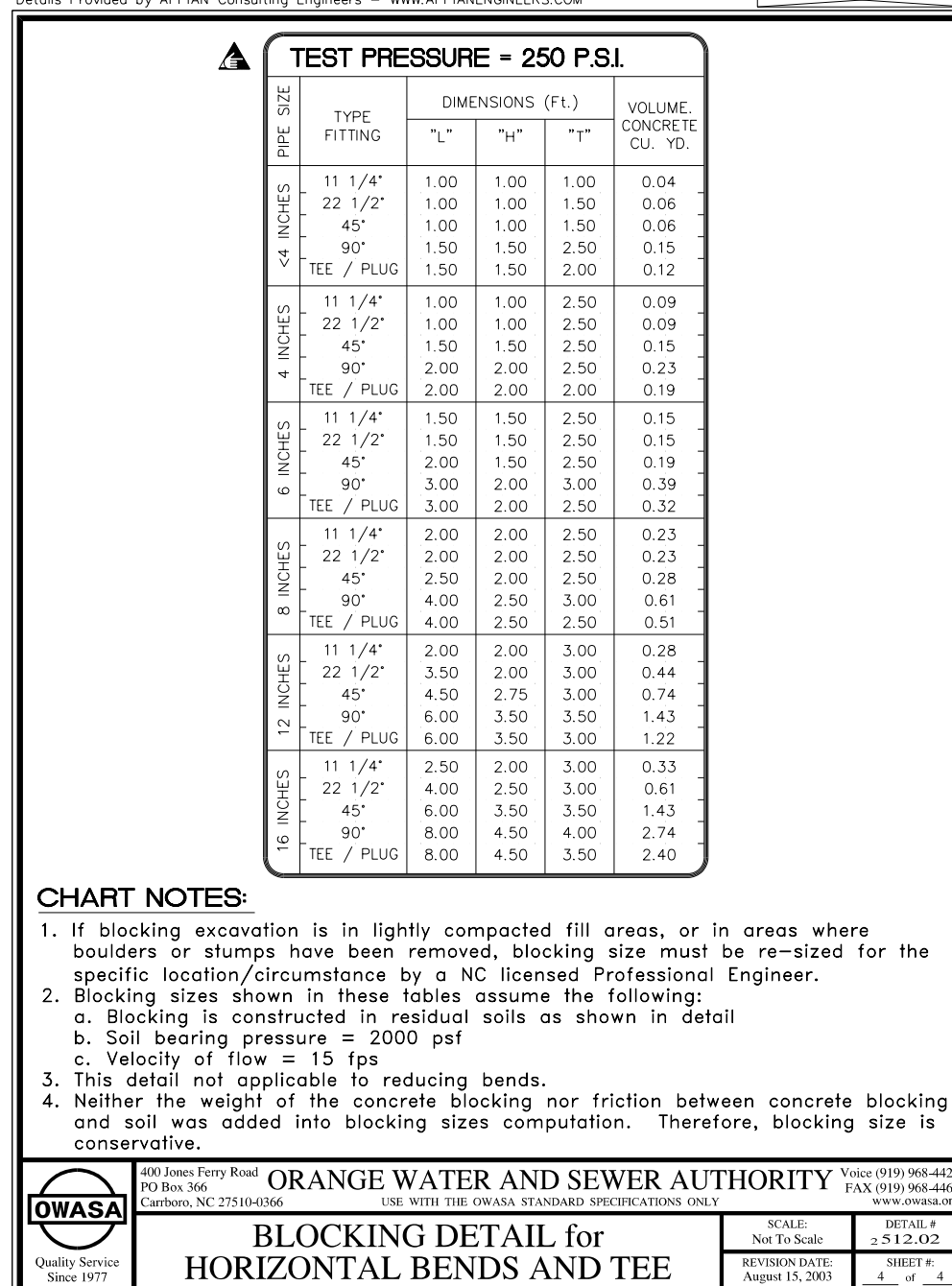
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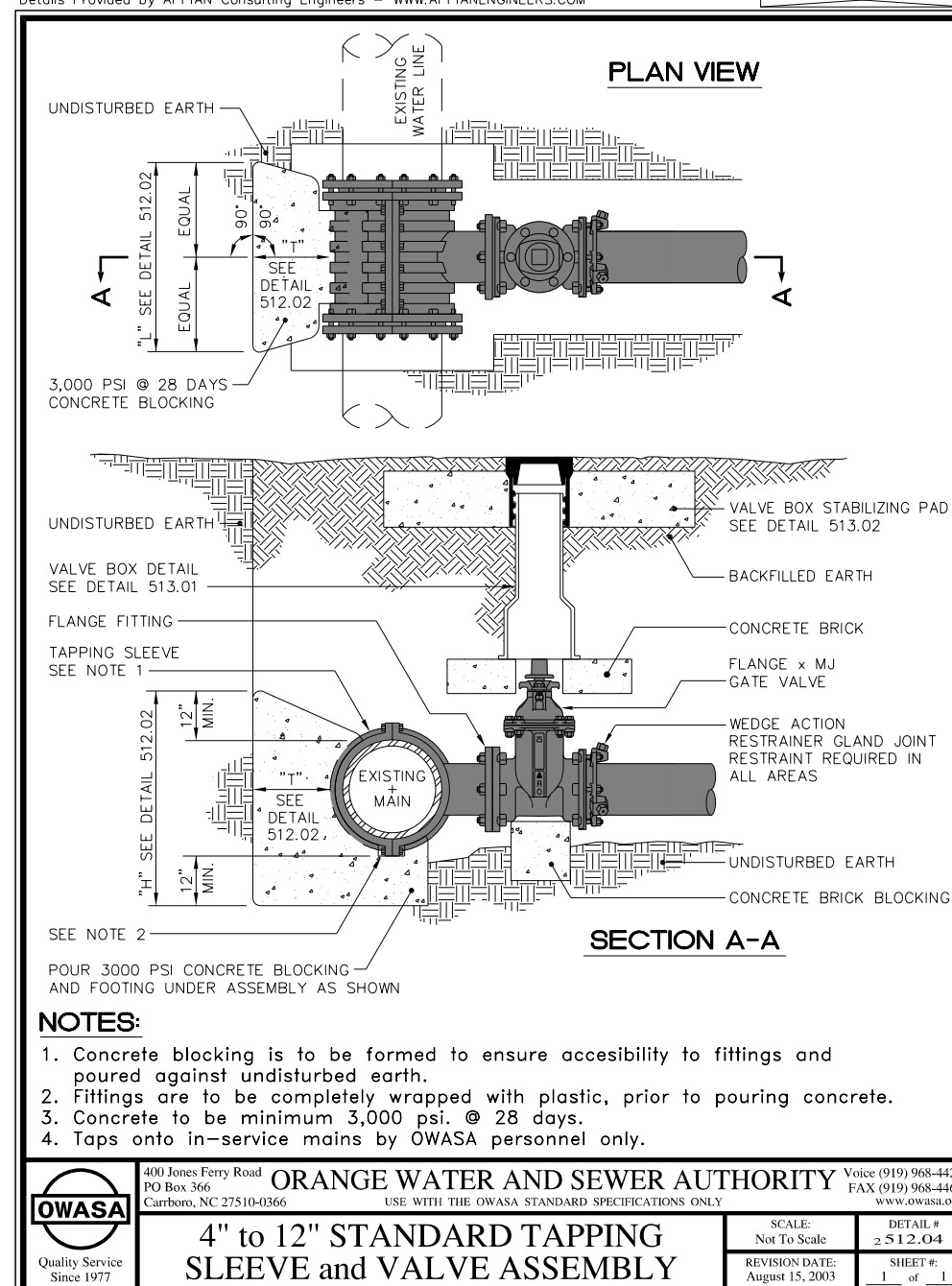
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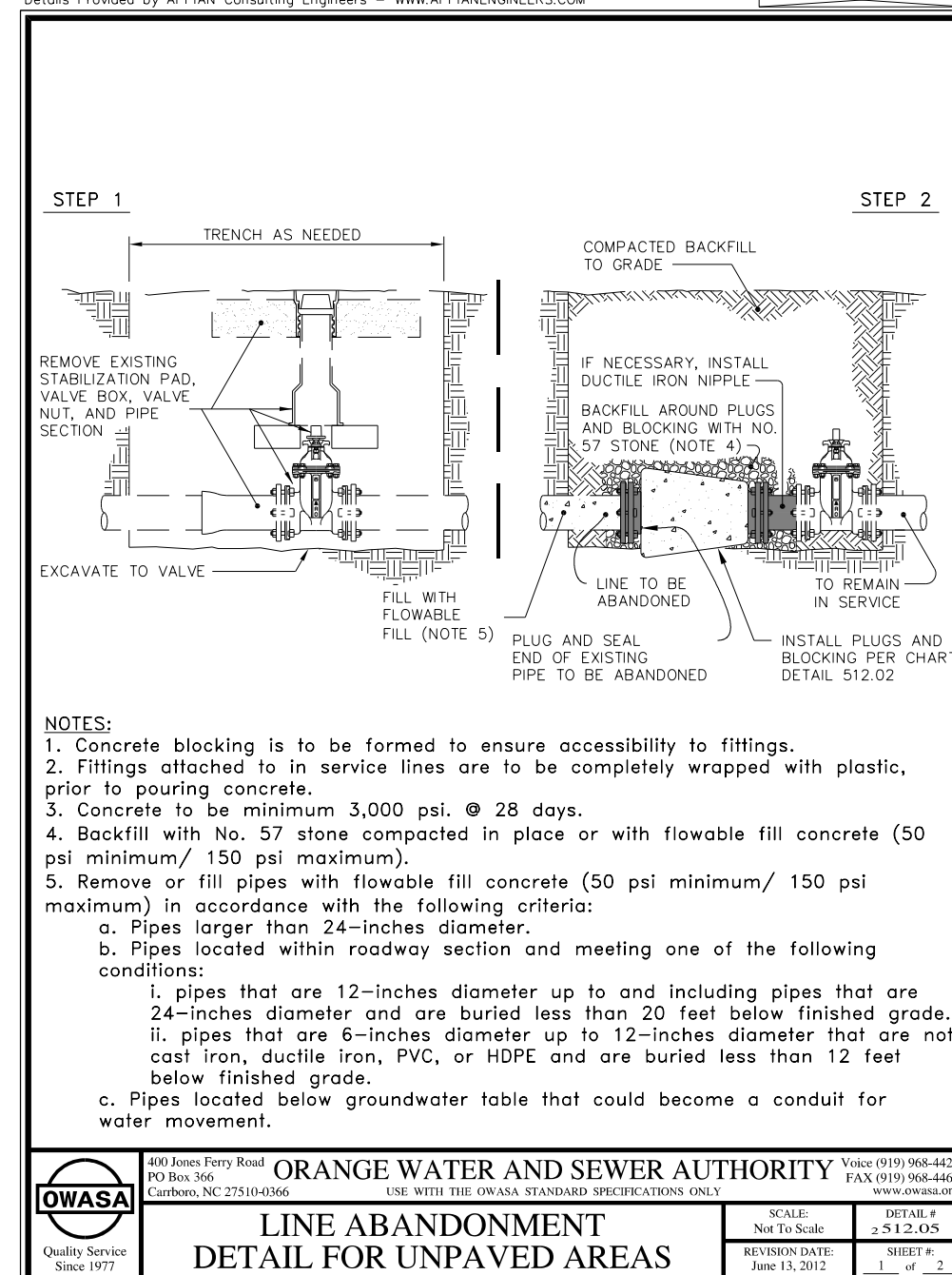
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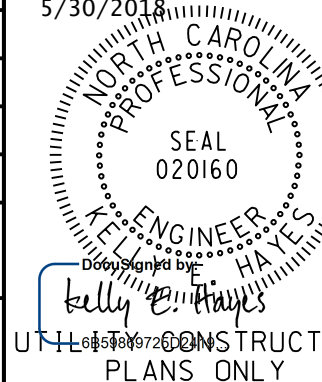


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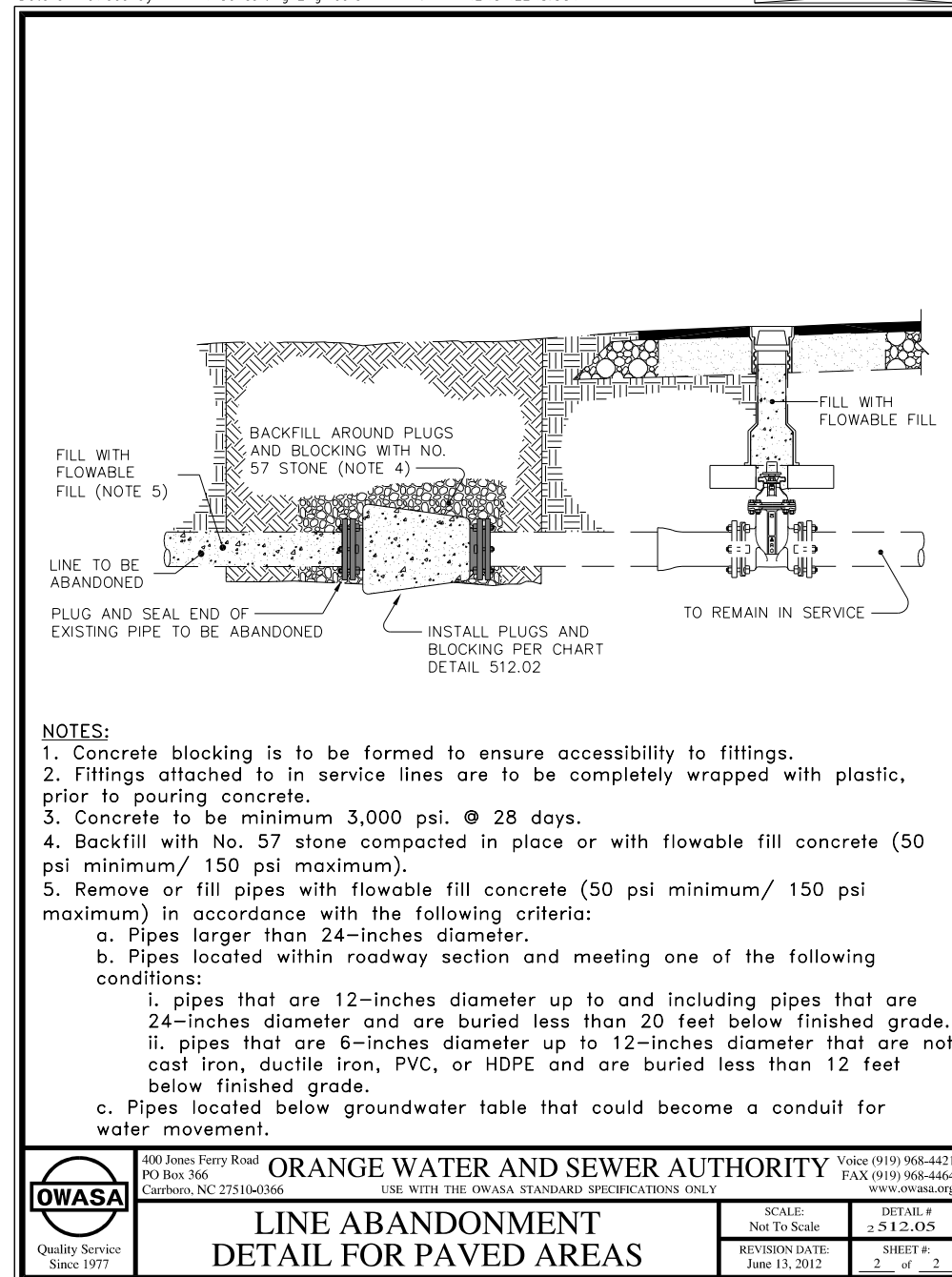
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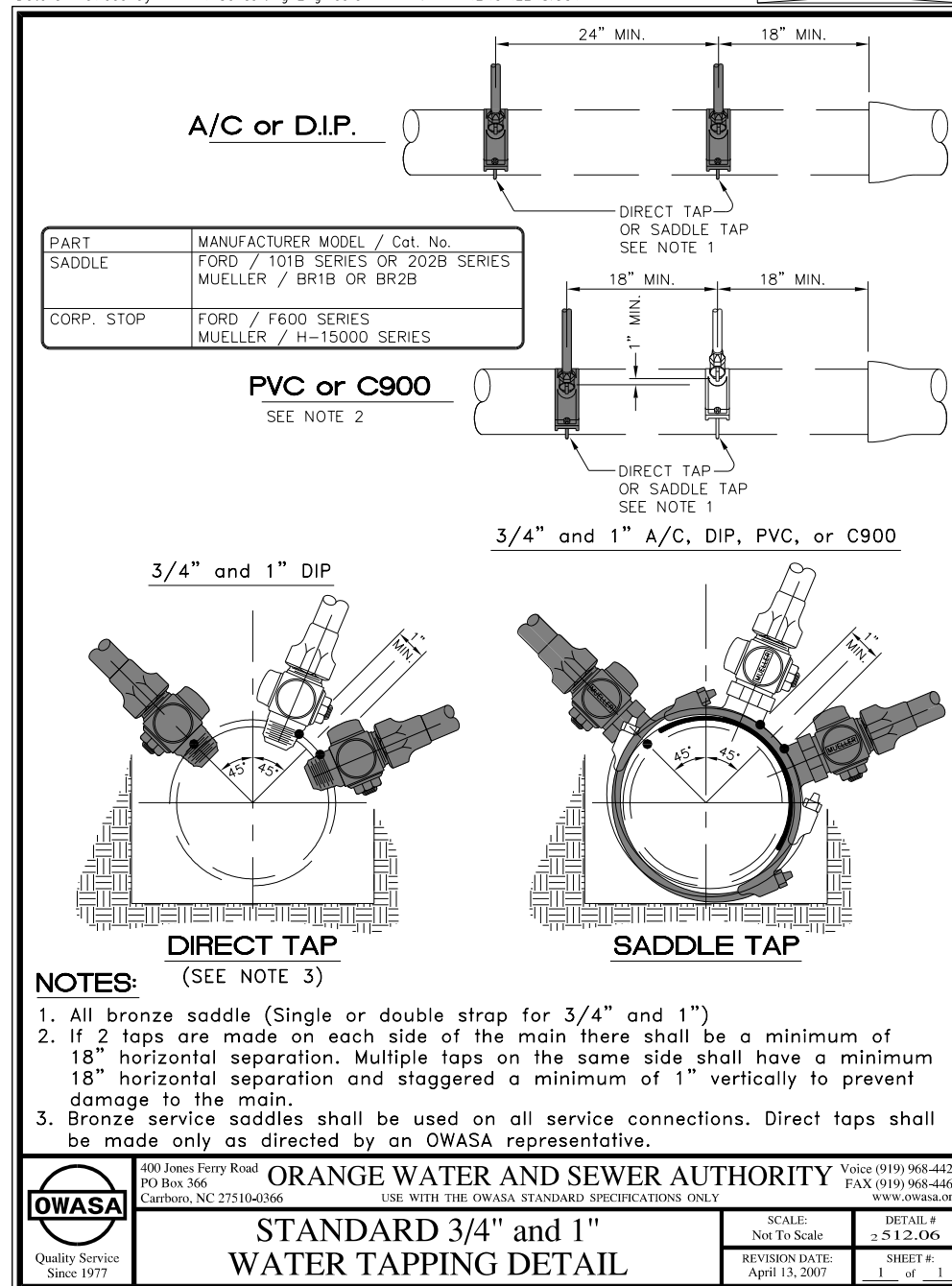
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REVISED:			
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UTILITIES ENGINEERING SEC. PHONE: (919) 707-6690 FAX: (919) 250-4151			

## UTILITY CONSTRUCTION

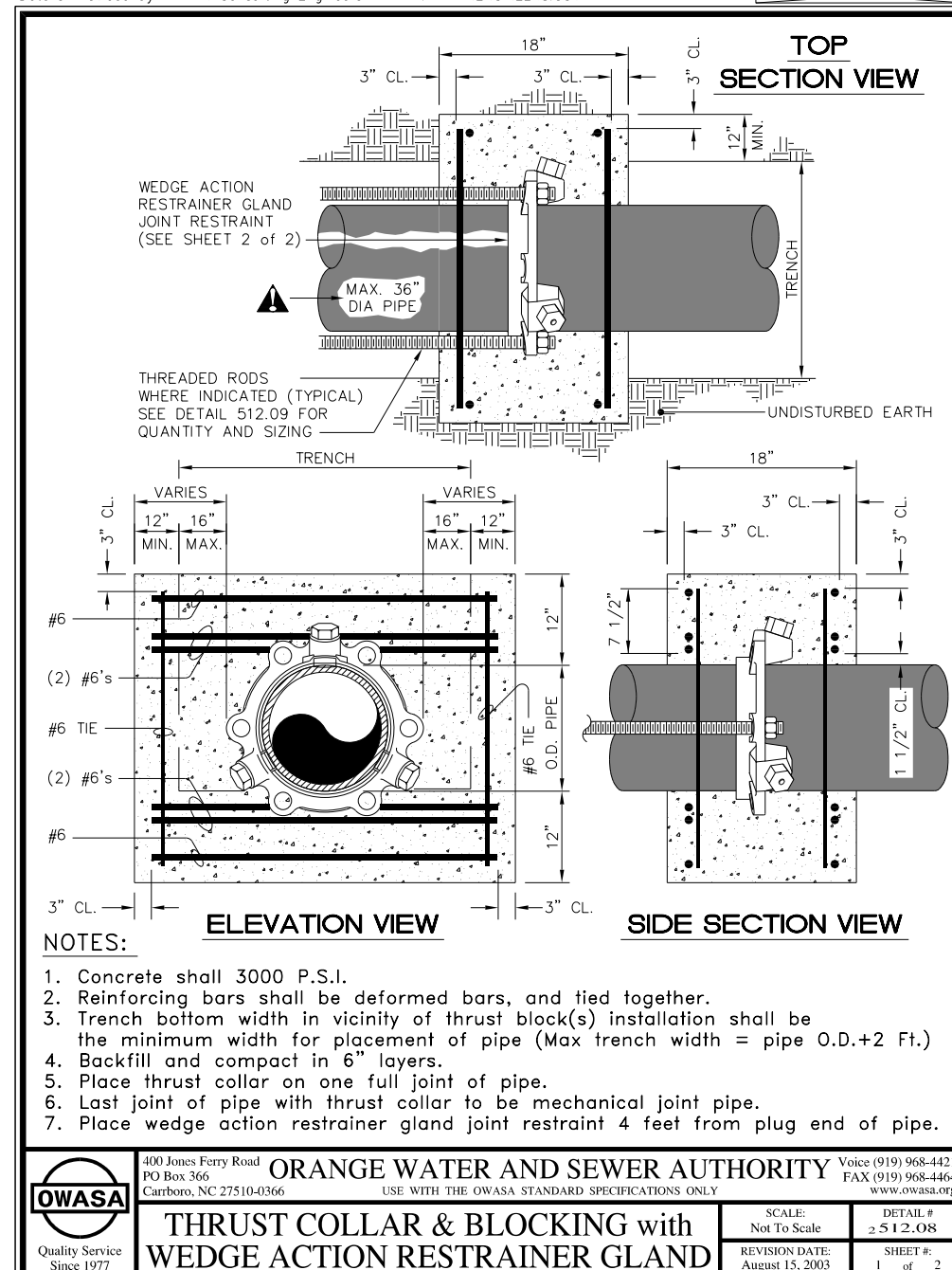
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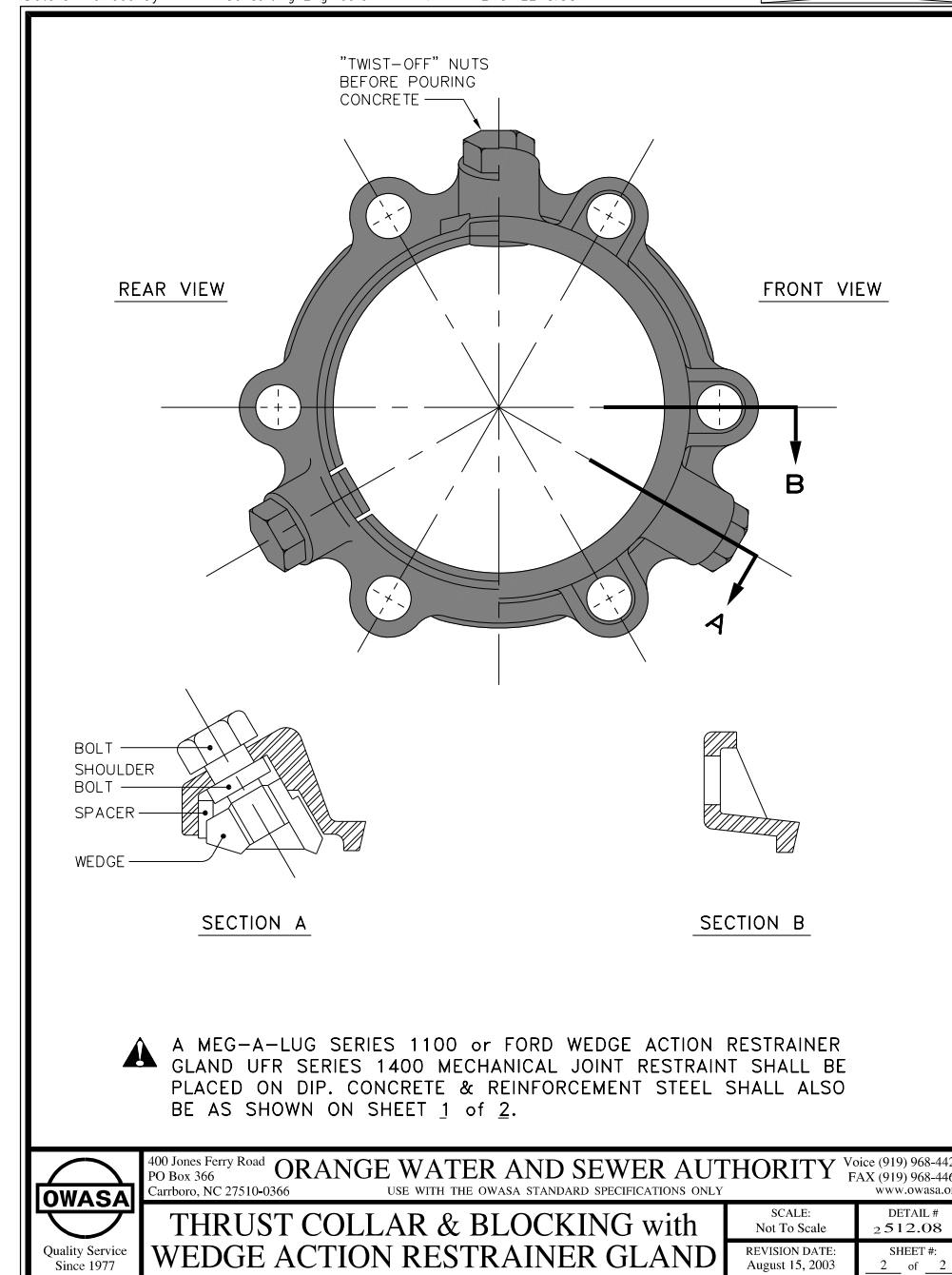
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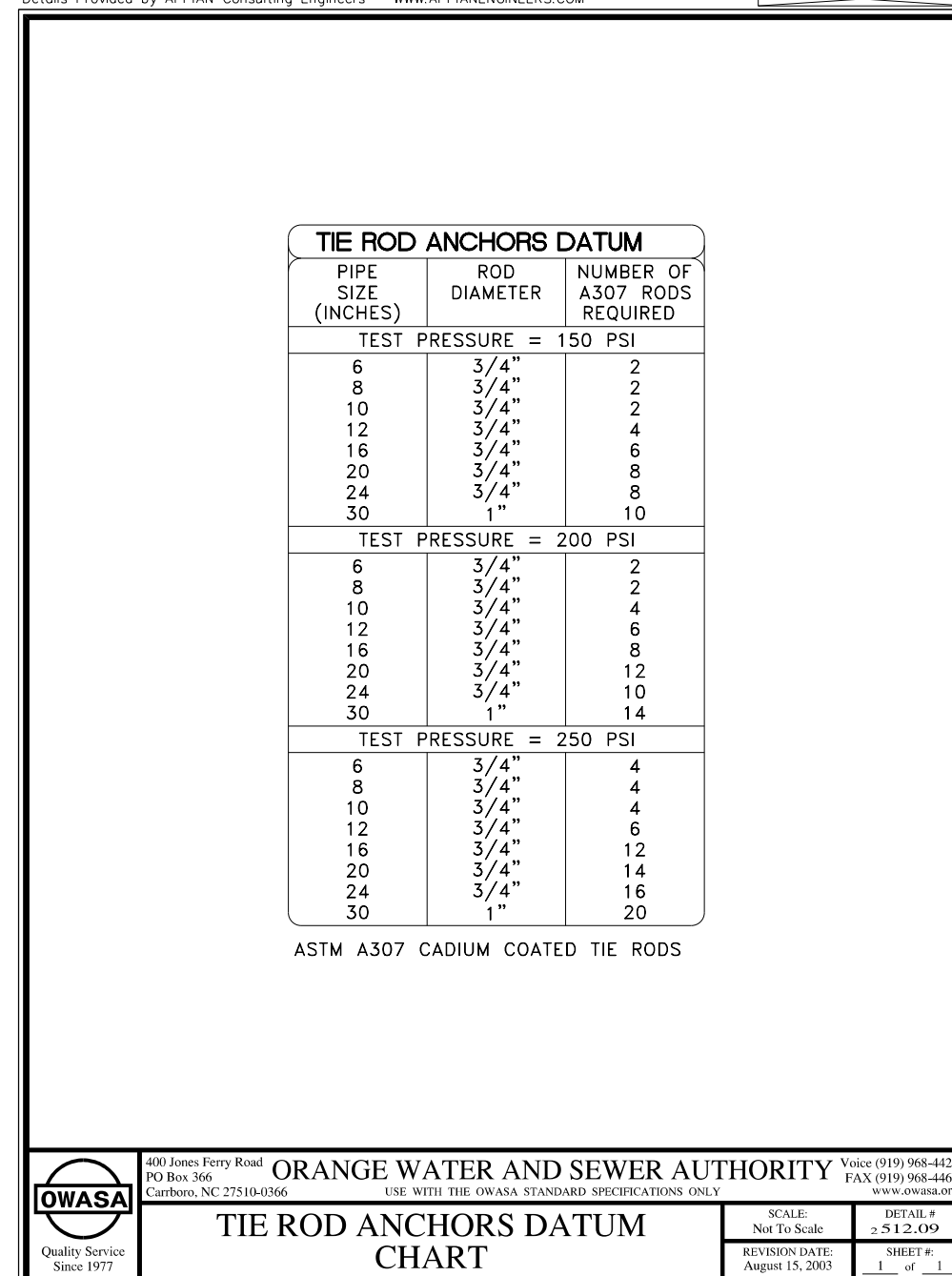
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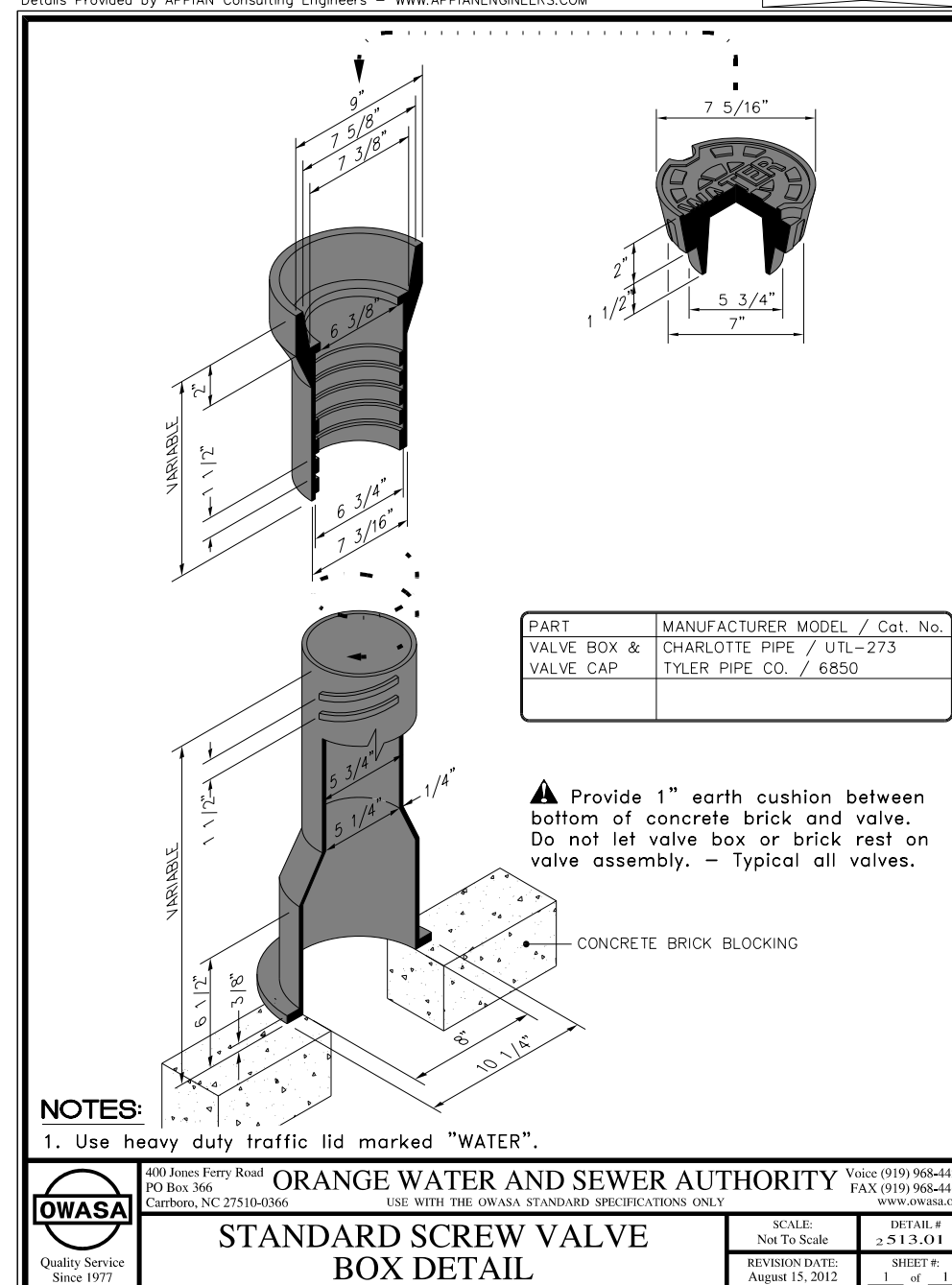
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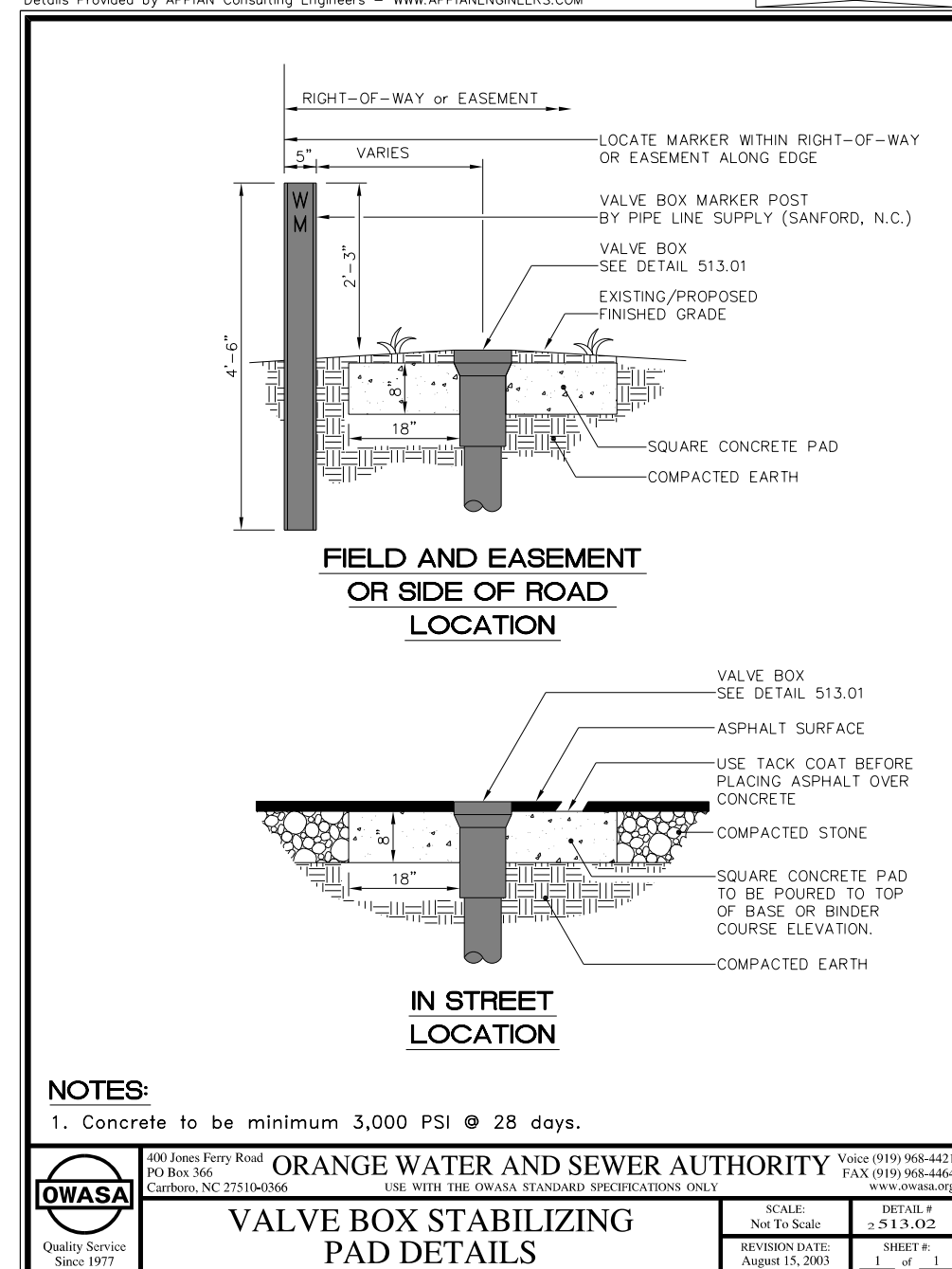
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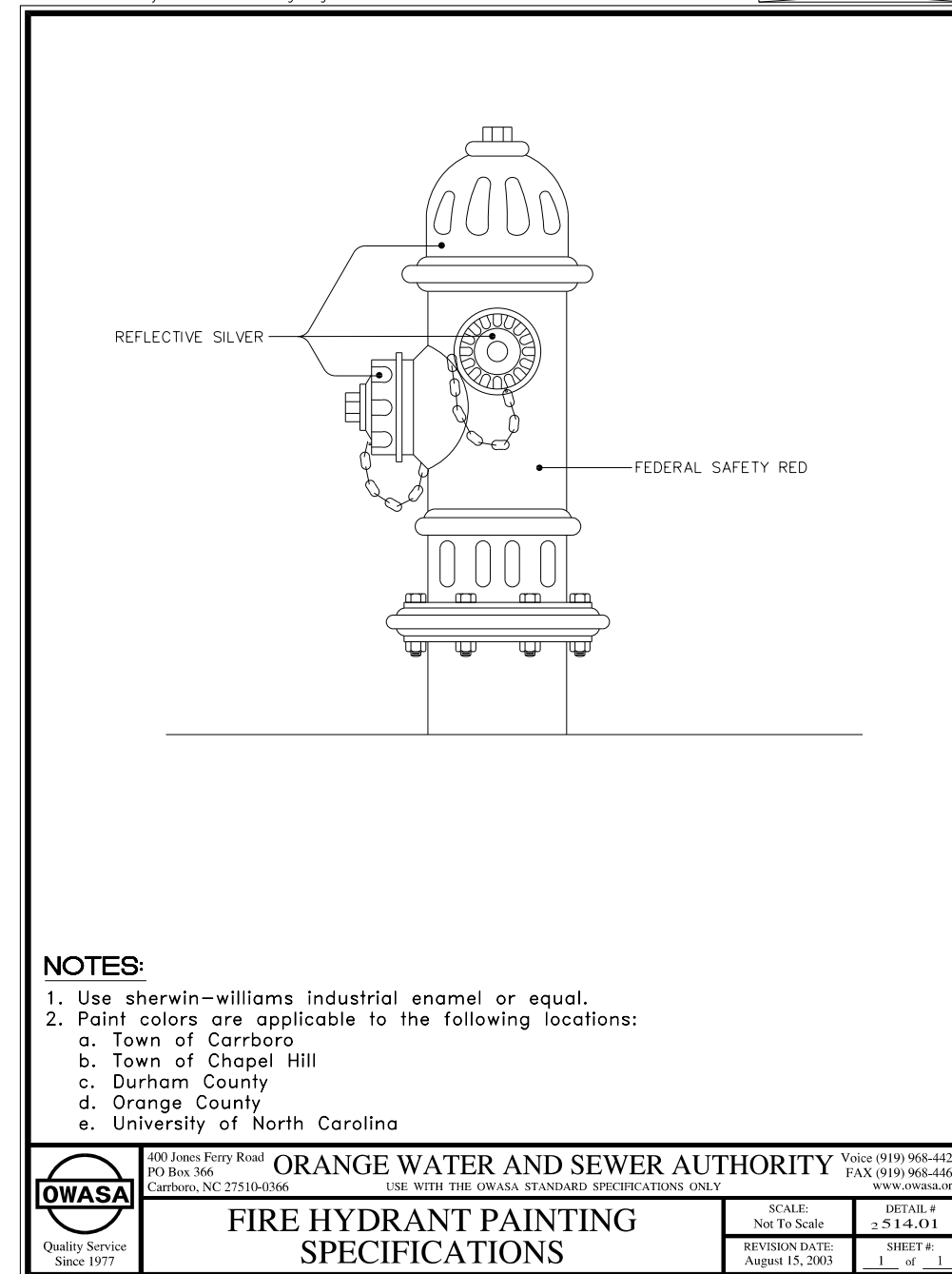
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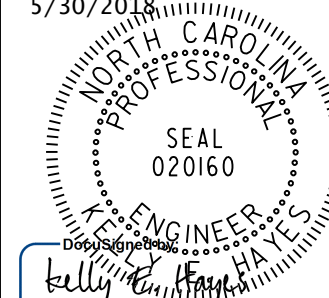


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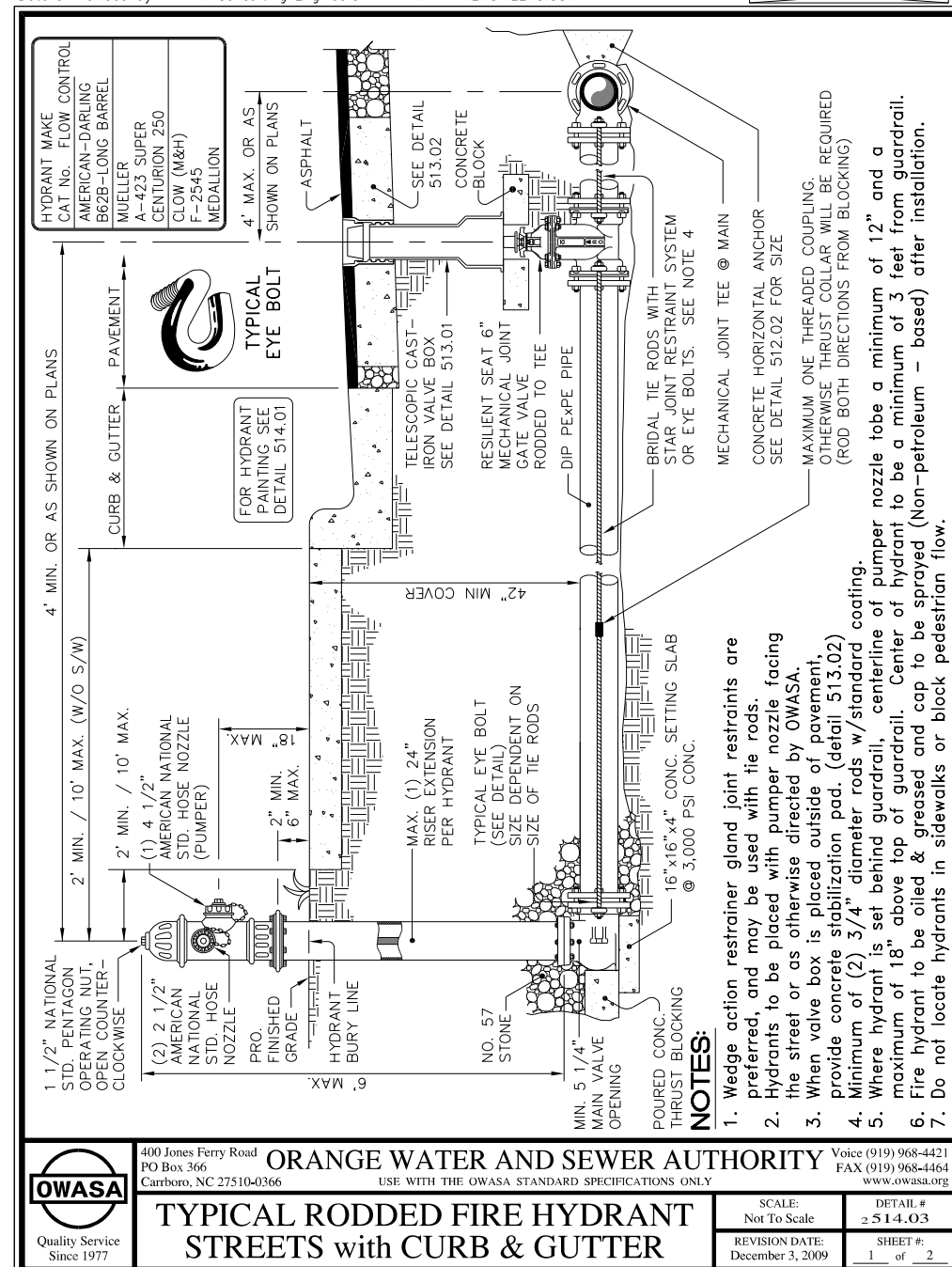
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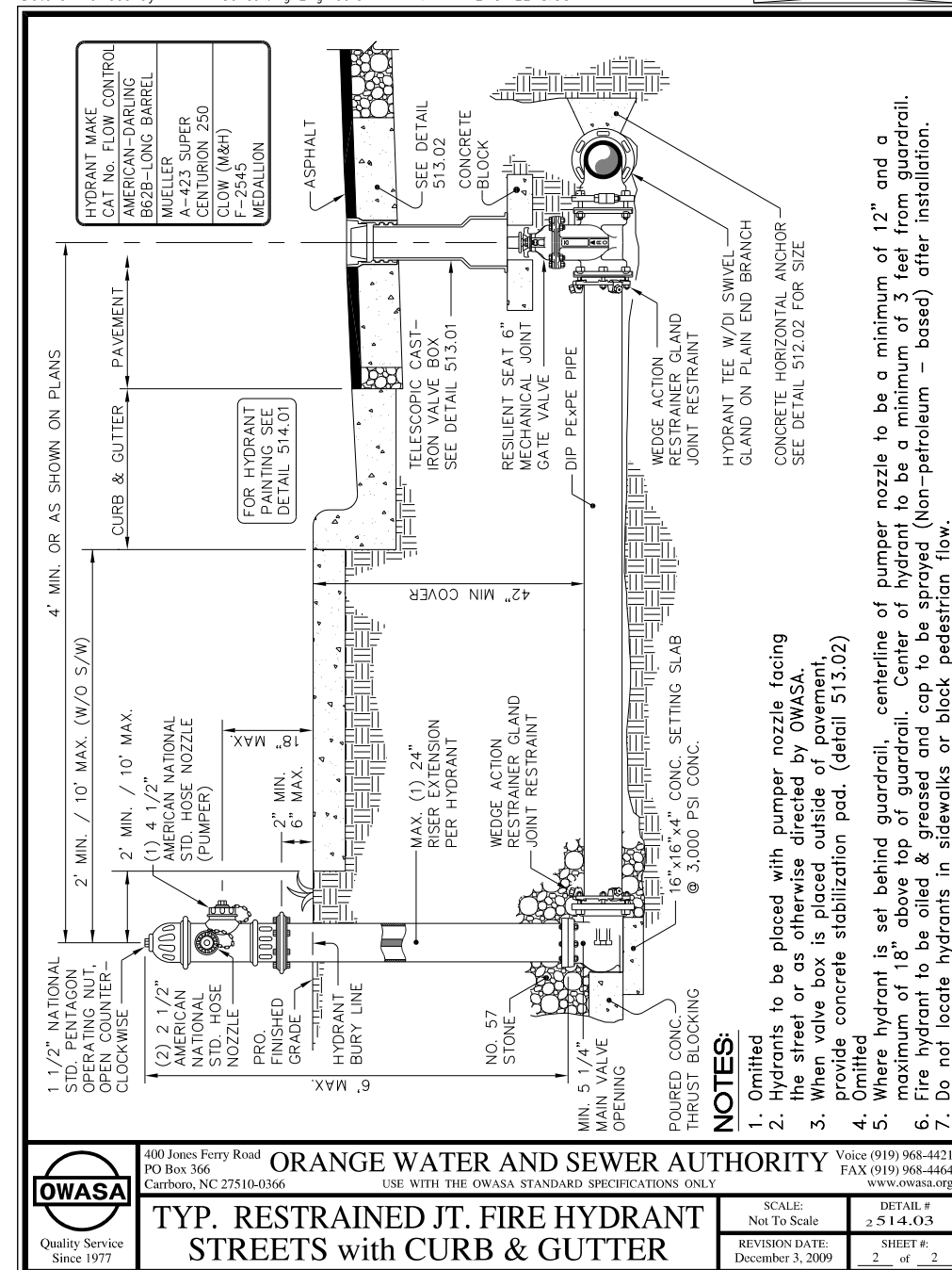
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DESIGNED BY:	5/30/2018  KELLY R. HARTS PROFESSIONAL ENGINEER STATE OF NORTH CAROLINA LICENSE NO. 020160
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REVISED:	NORTH CAROLINA DEPARTMENT OF TRANSPORTATION UTILITIES ENGINEERING SEC. PHONE: (919) 707-6690 FAX: (919) 250-4151
	UTILITY CONSTRUCTION PLANS ONLY

## UTILITY CONSTRUCTION

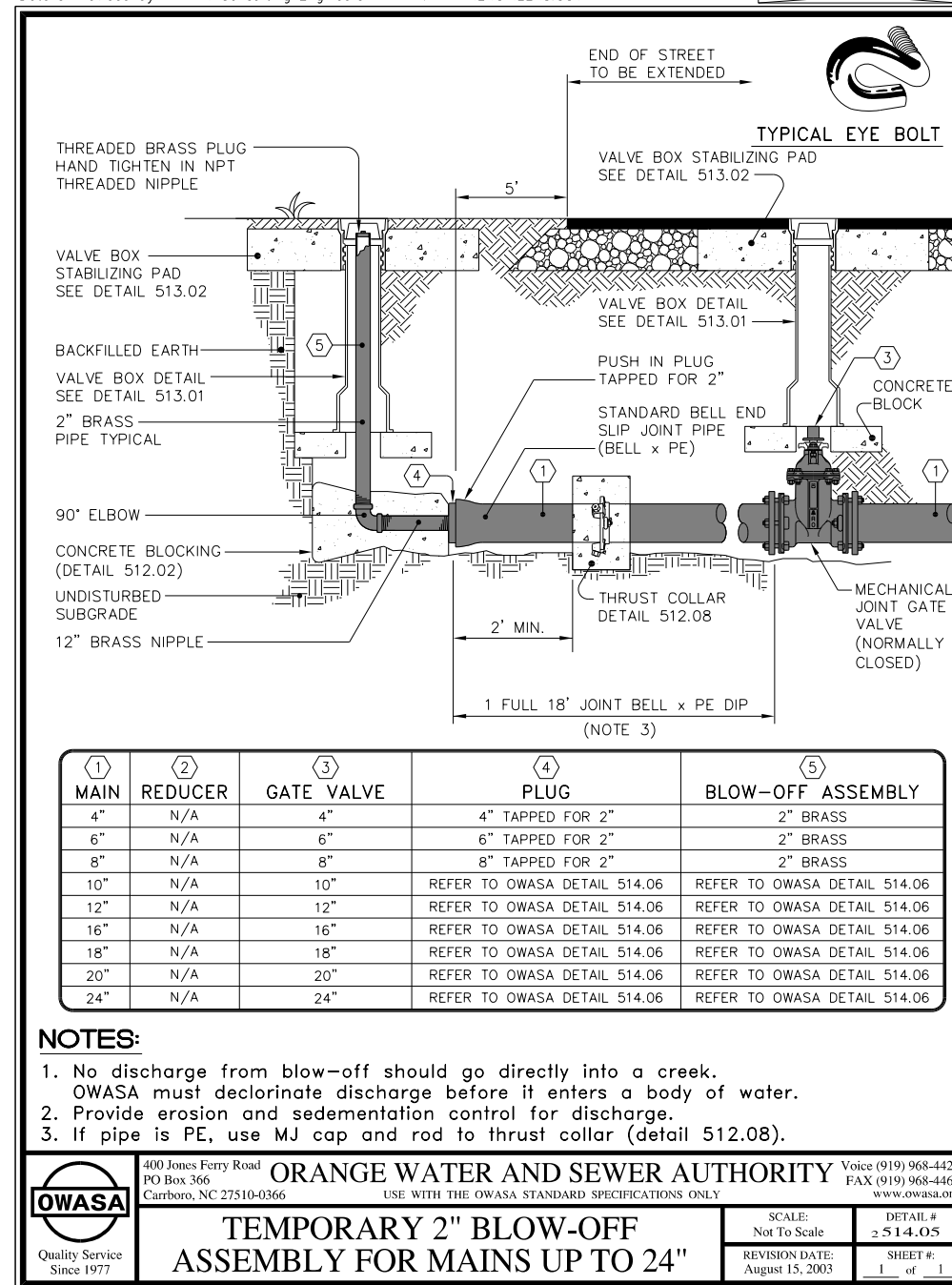
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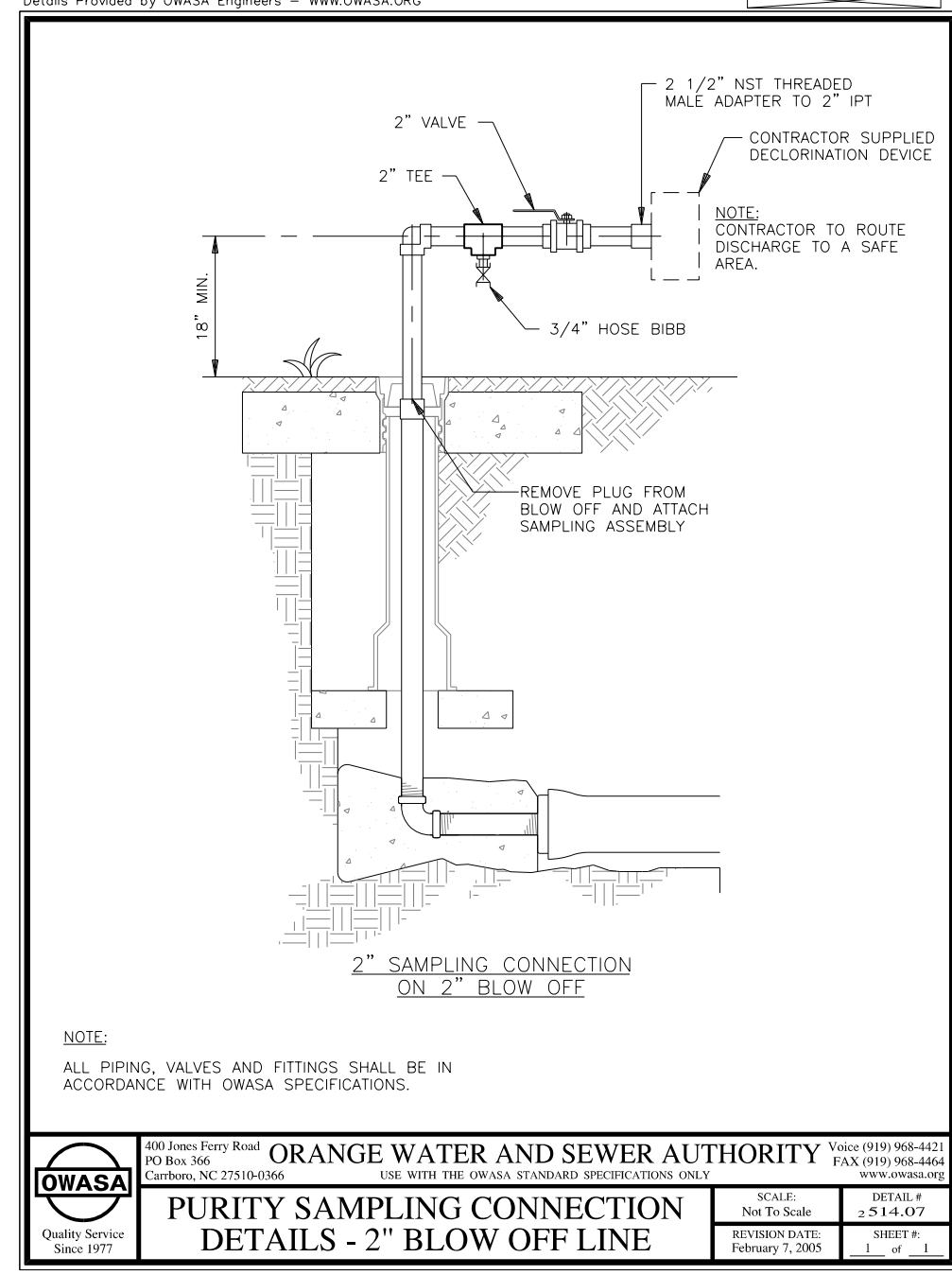
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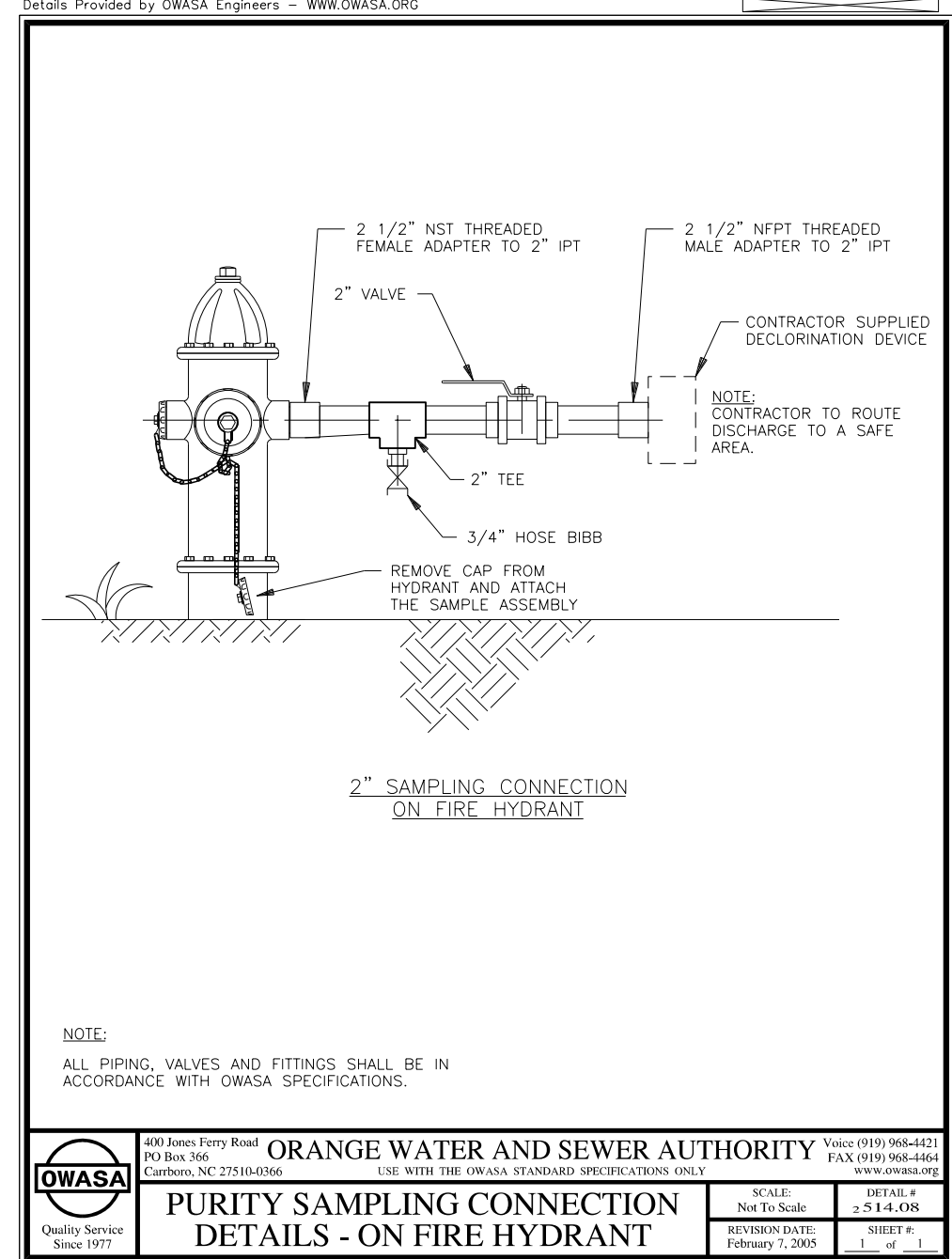
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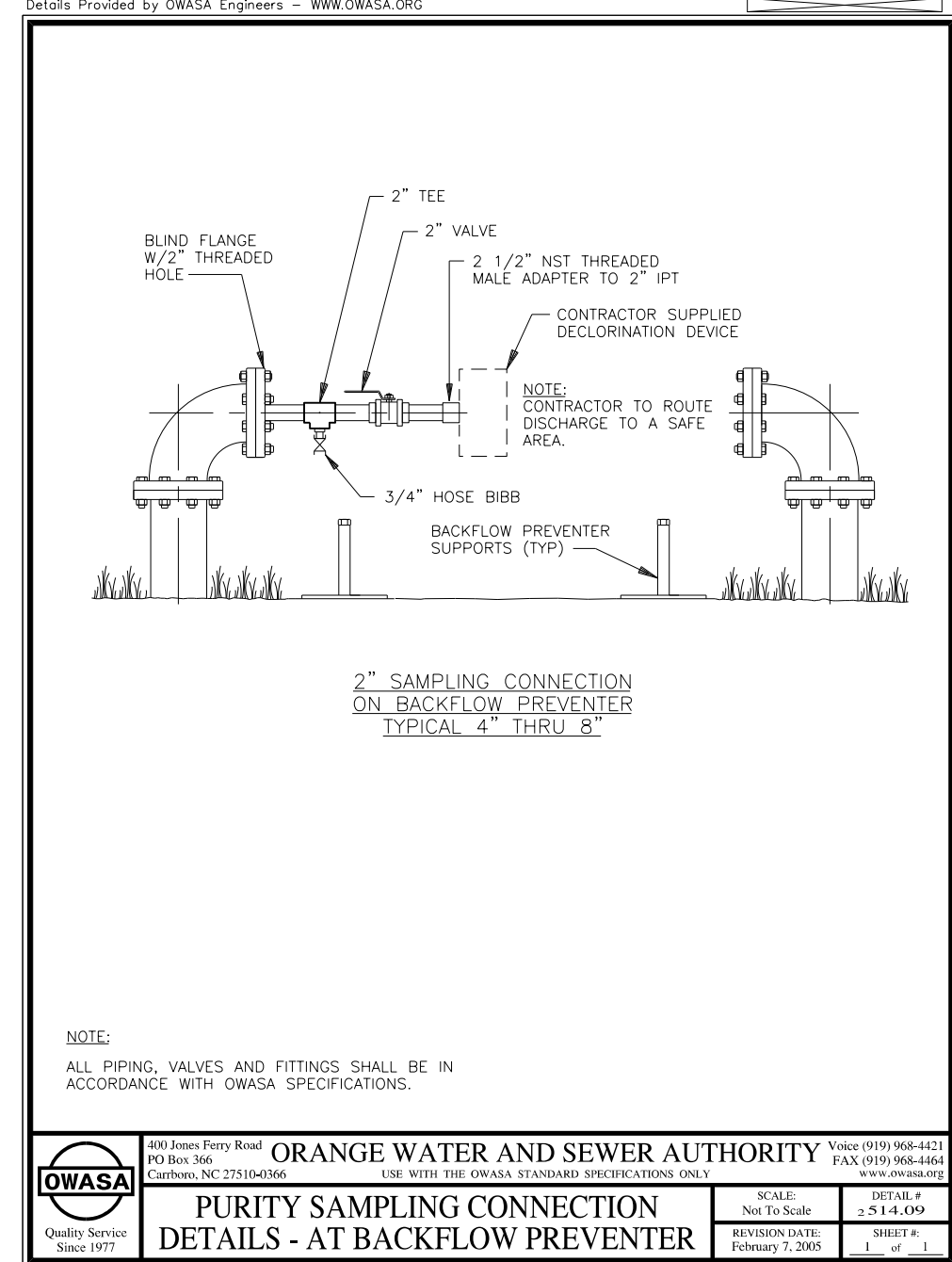
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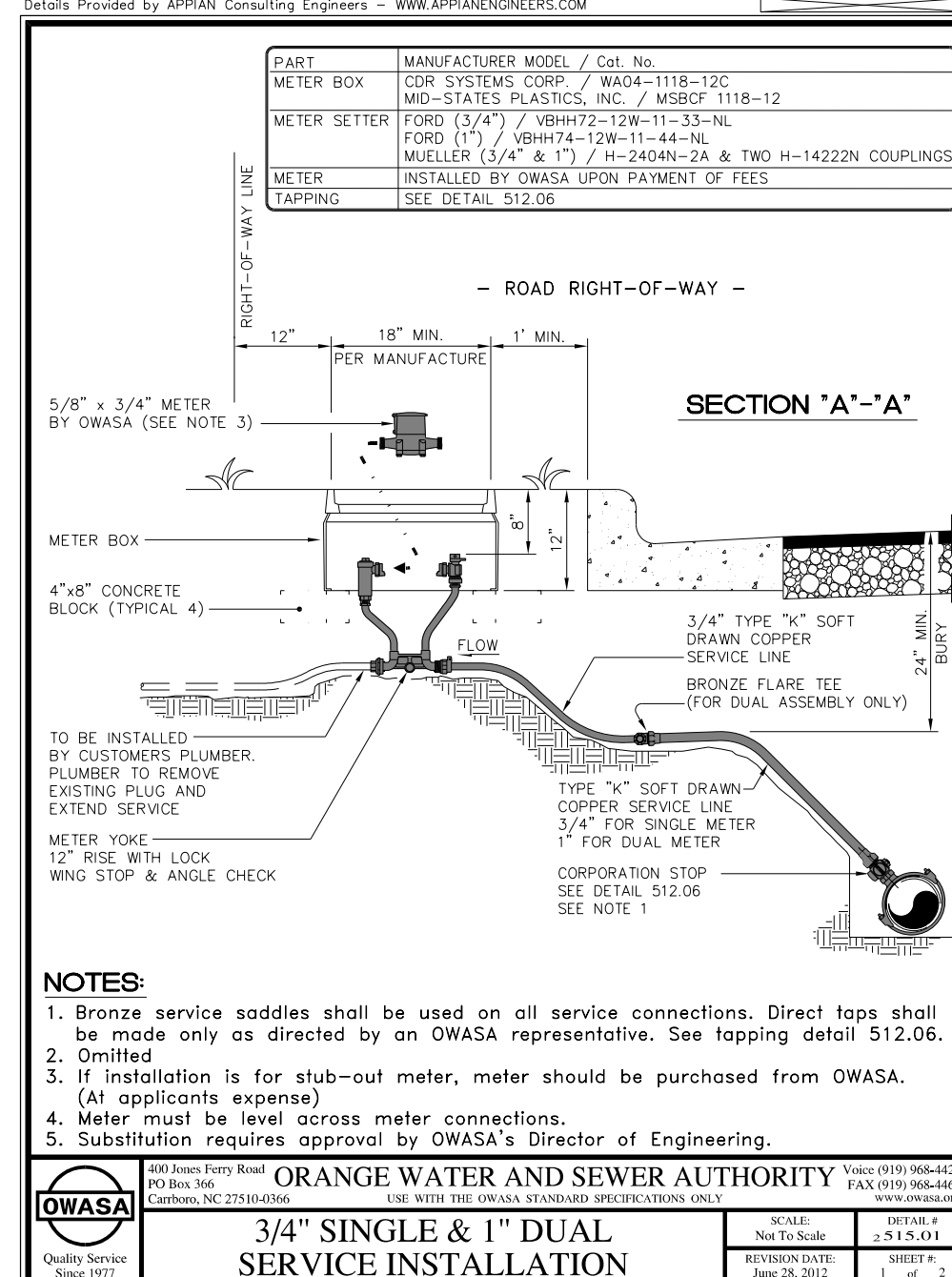
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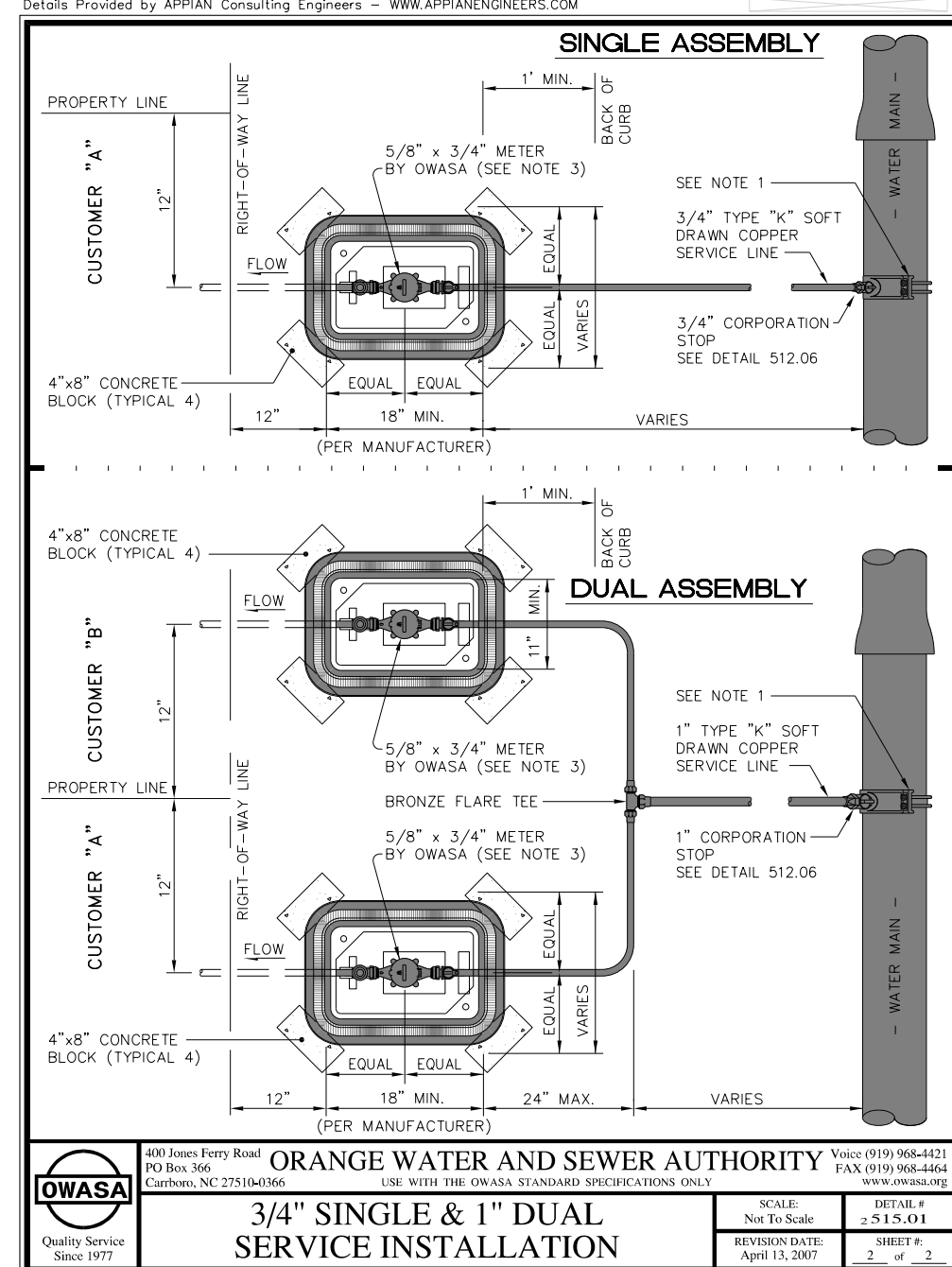
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U-5846

SHEET NO.

UC-3D

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APPROVED BY:

REVISED:

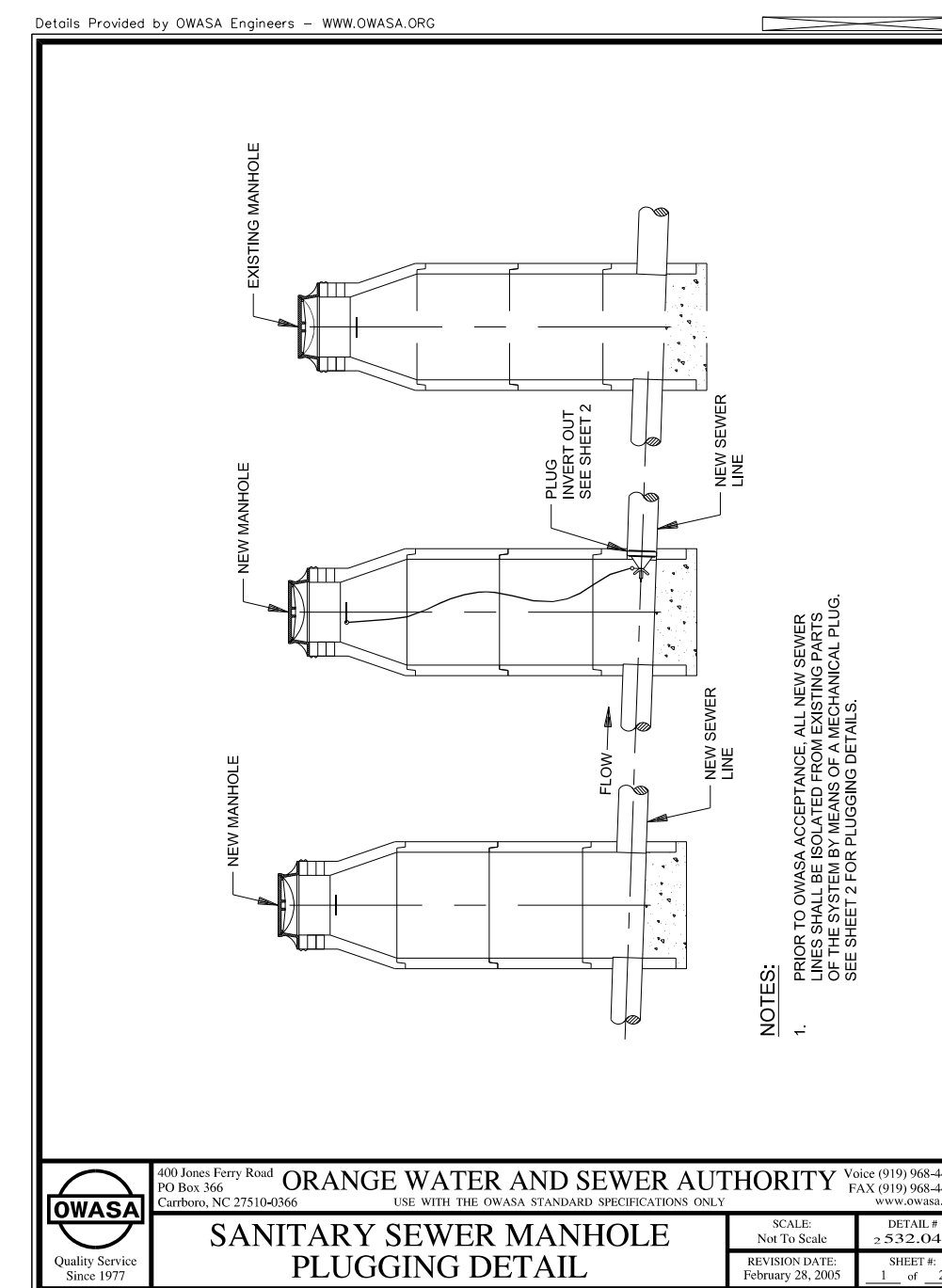
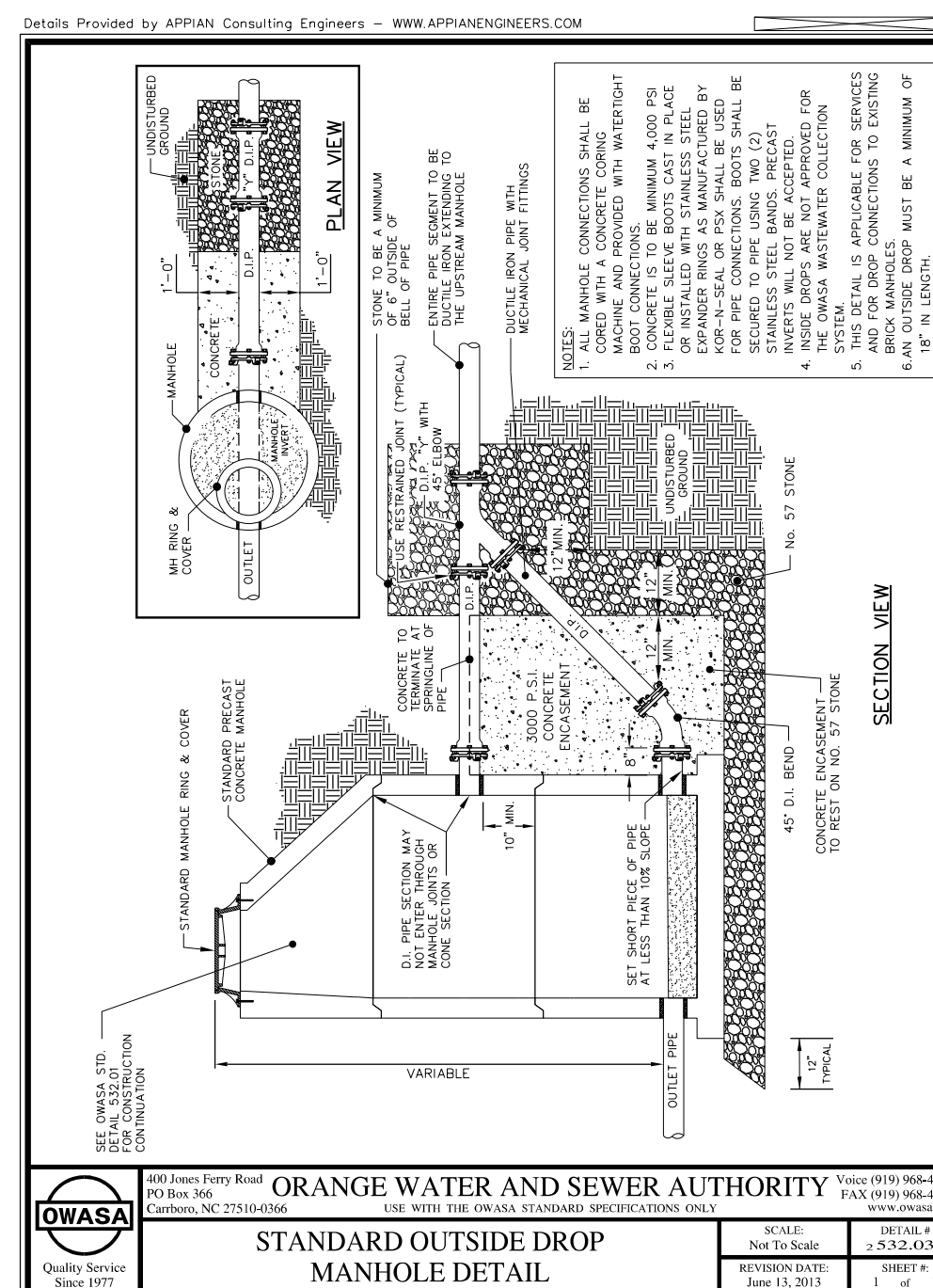
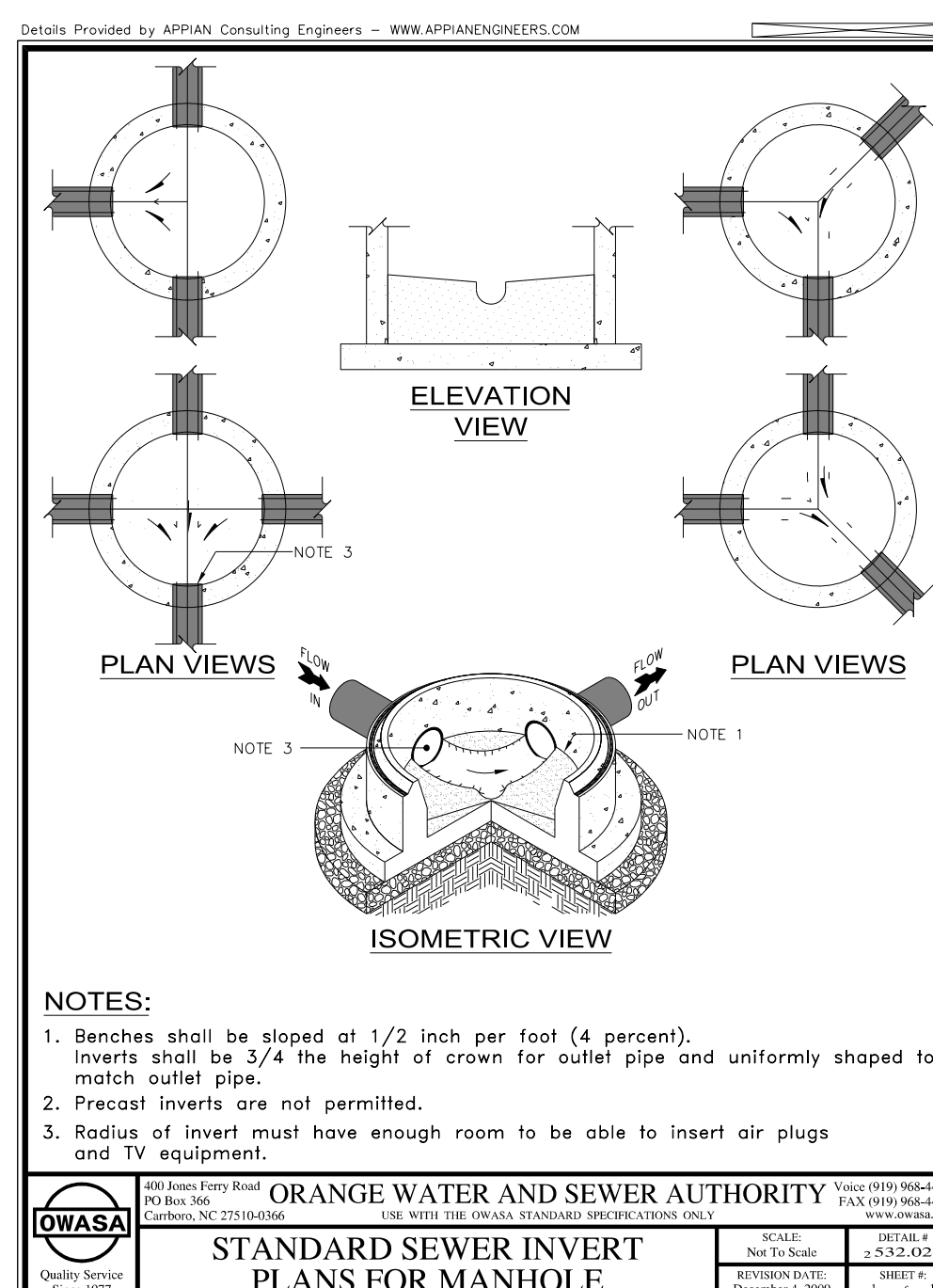
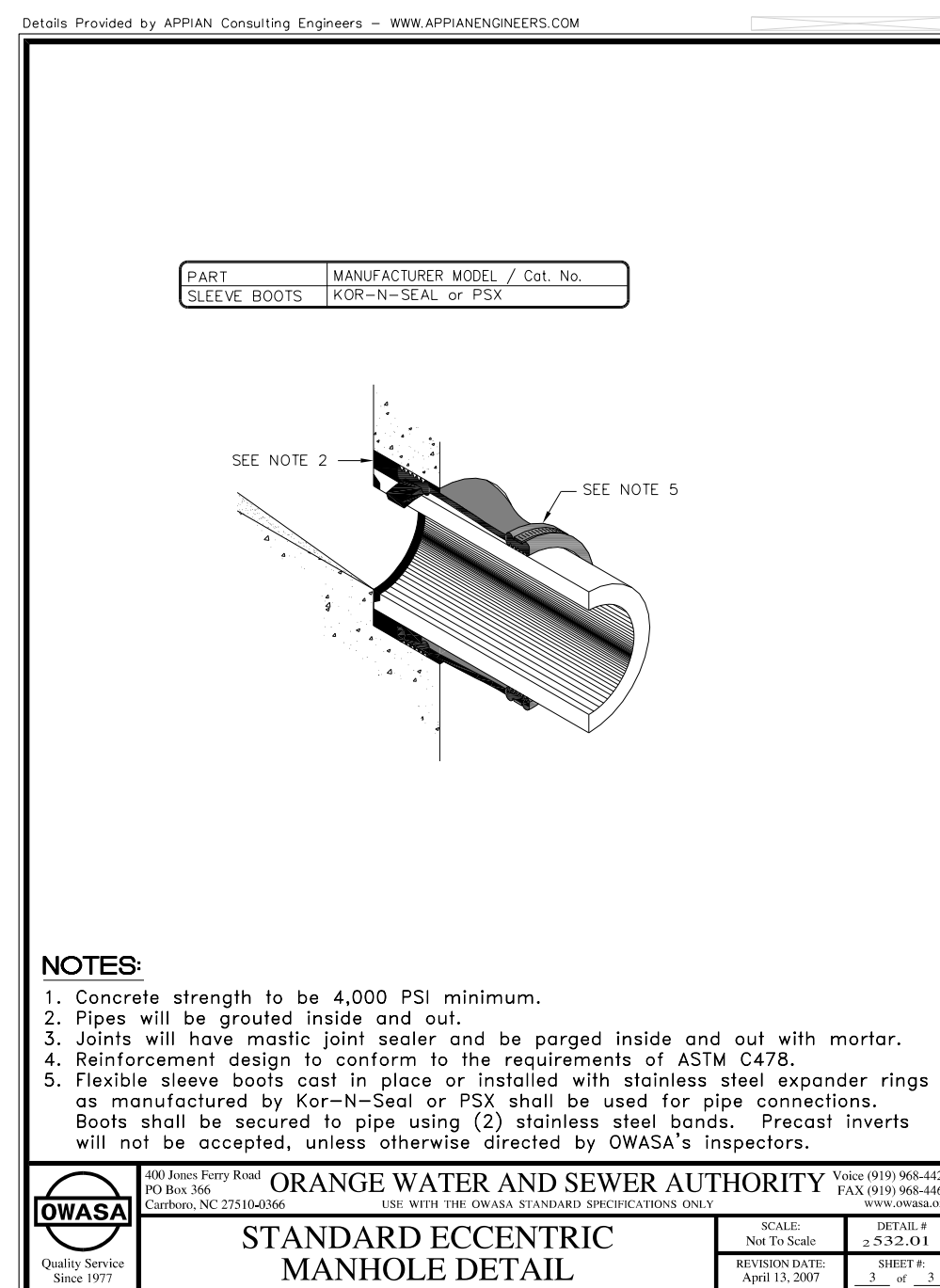
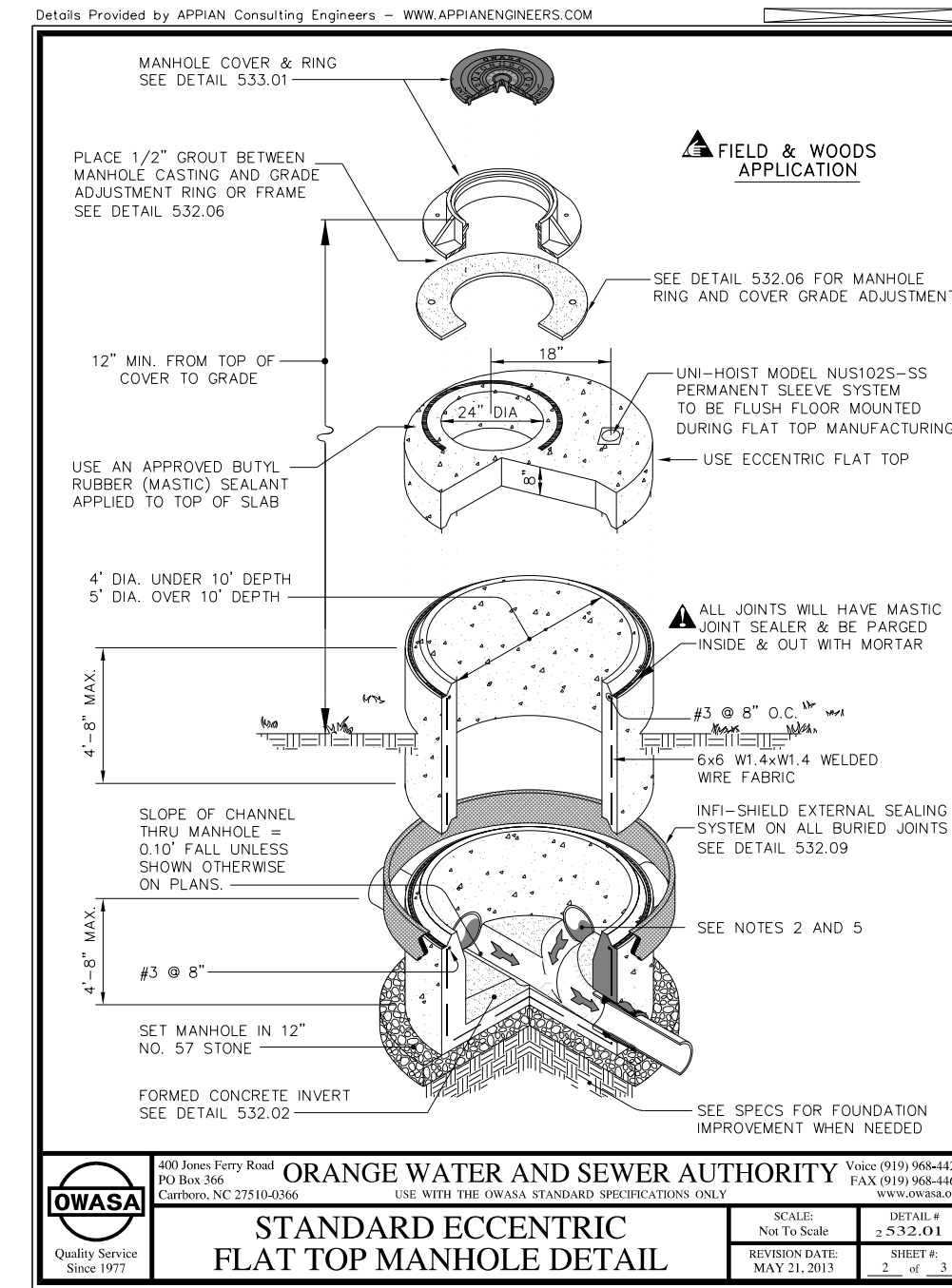
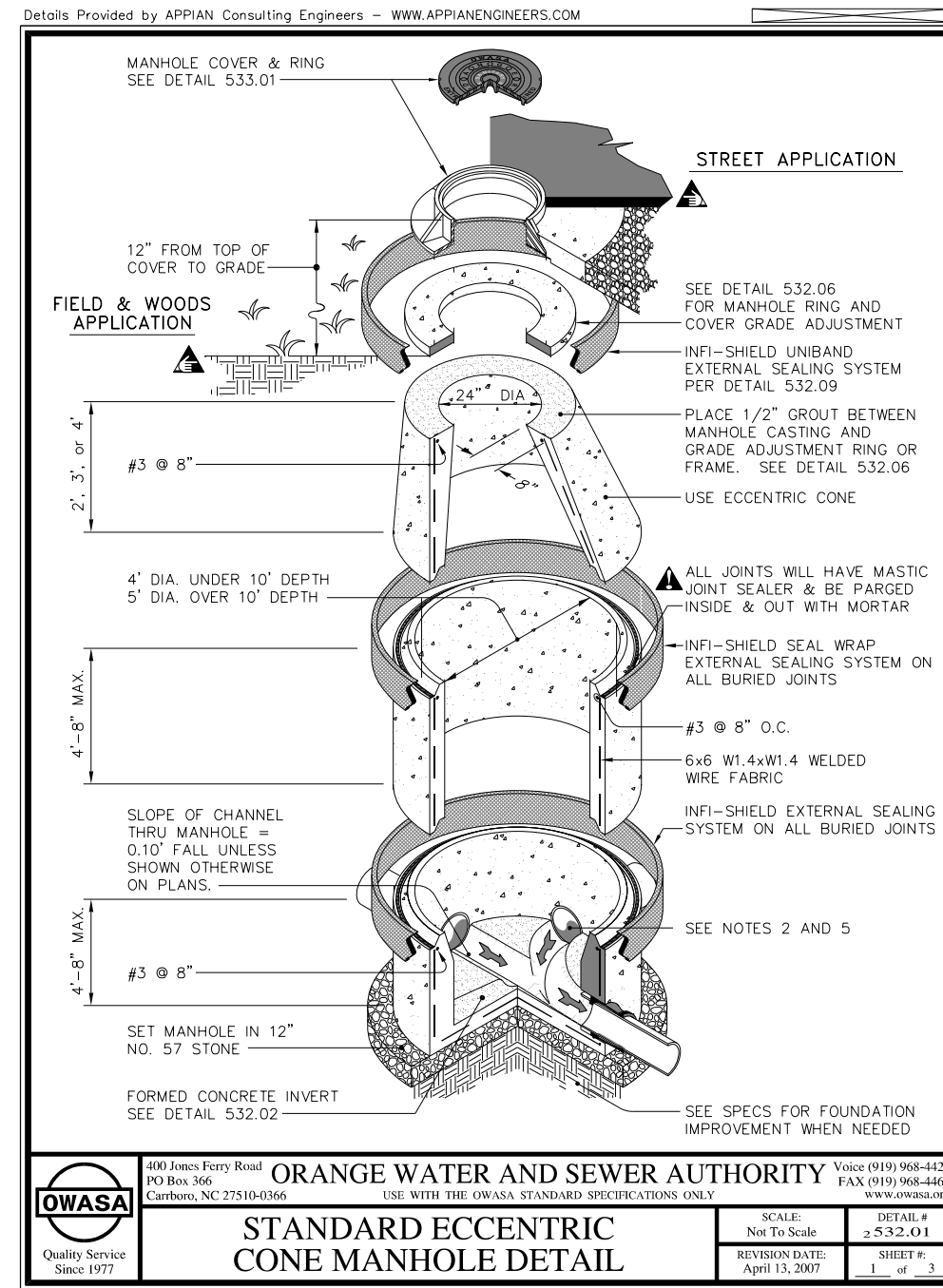
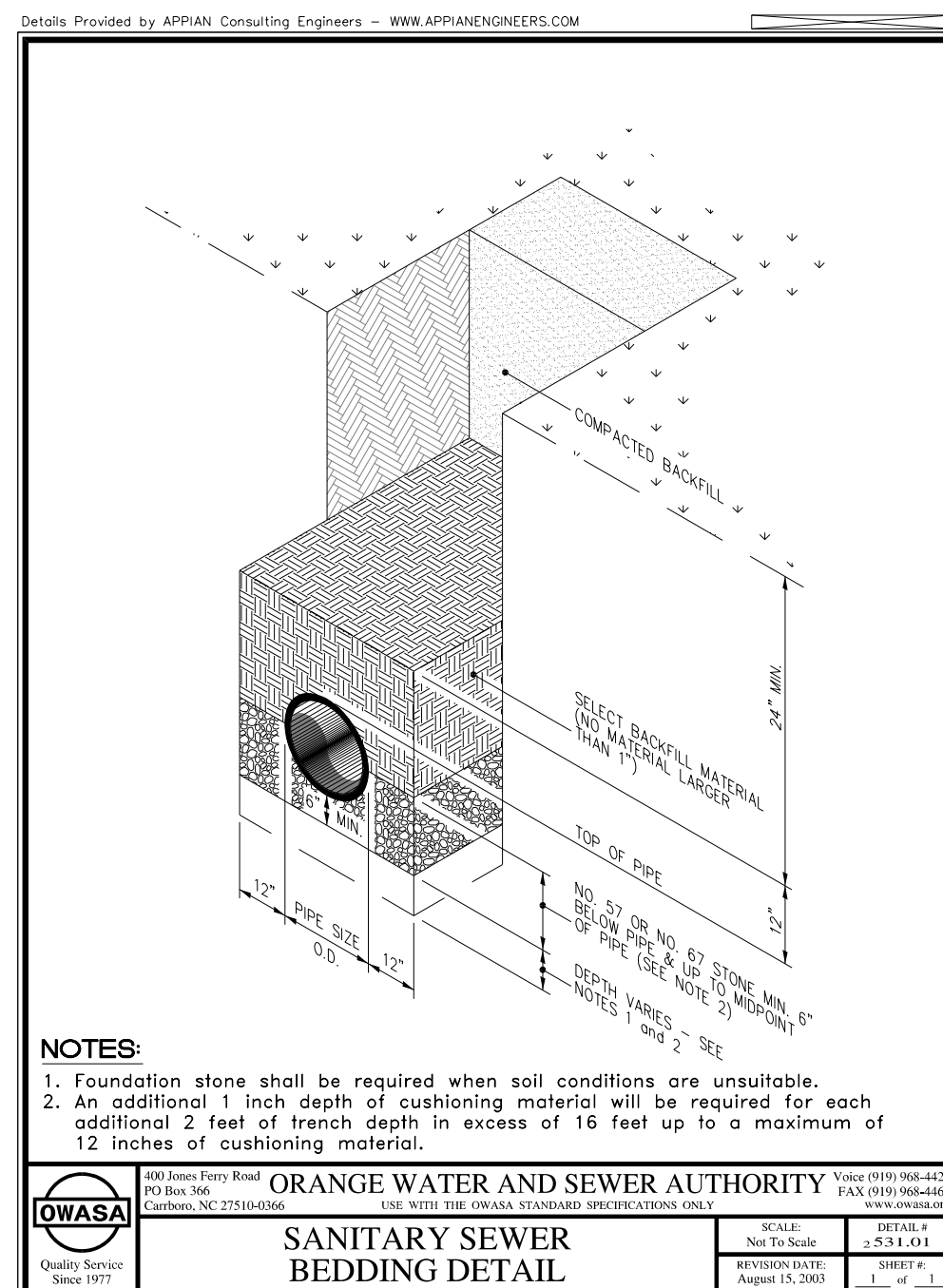
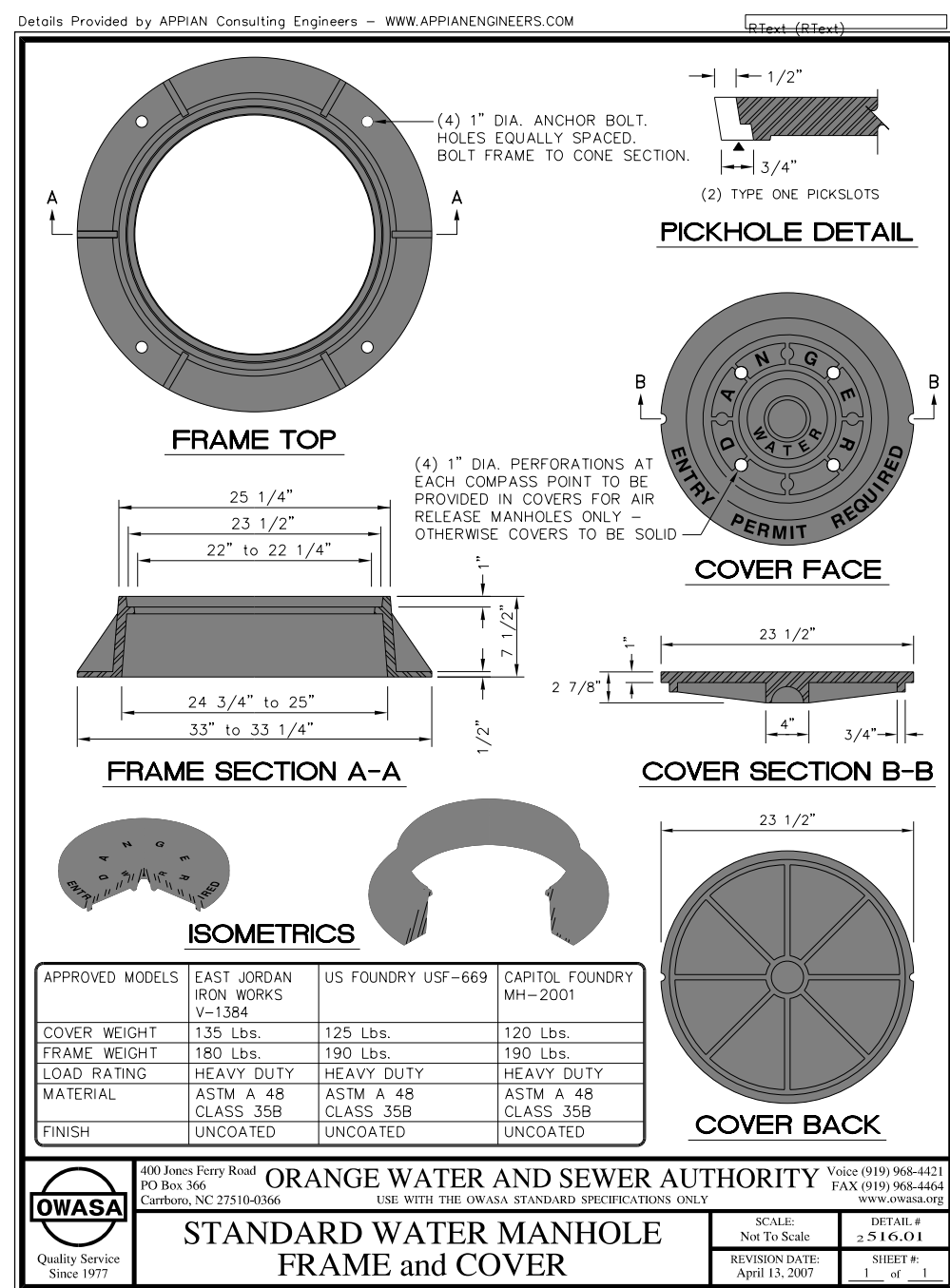
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TRANSPORTATION

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PHONE: (919) 707-6690  
FAX: (919) 250-4151

5/30/2018

 NORTH CAROLINA  
DEPARTMENT OF  
TRANSPORTATION  
SEAL  
020160  
REGISTERED PROFESSIONAL ENGINEER  
J. L. HARRIS  
No. 10000  
Exp. 12/31/2021  
UTILITY CONSTRUCTION  
PLANS ONLY

## UTILITY CONSTRUCTION





**SEPI**  
ENGINEERING &  
CONSTRUCTION

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Fax: 919-789-9591  
License: C-2197

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U-5846	
DESIGNED BY:	5/
DRAWN BY:	
CHECKED BY:	
APPROVED BY:	
REVISED:	
NORTH CAROLINA DEPARTMENT OF TRANSPORTATION	
UTILITIES ENGINEERING SEC. PHONE: (919) 707-6690 FAX: (919) 250-4151	

5/30/201



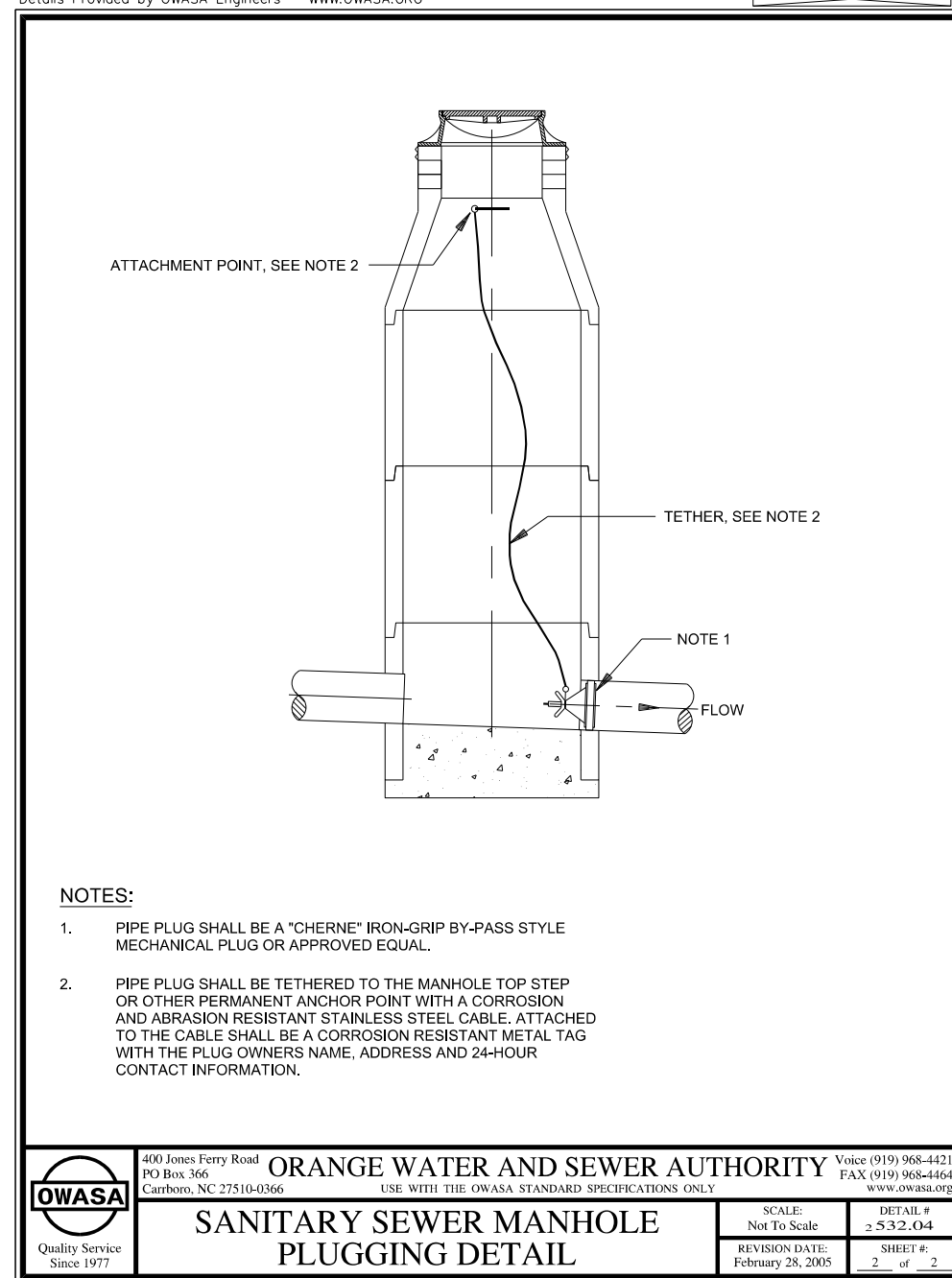
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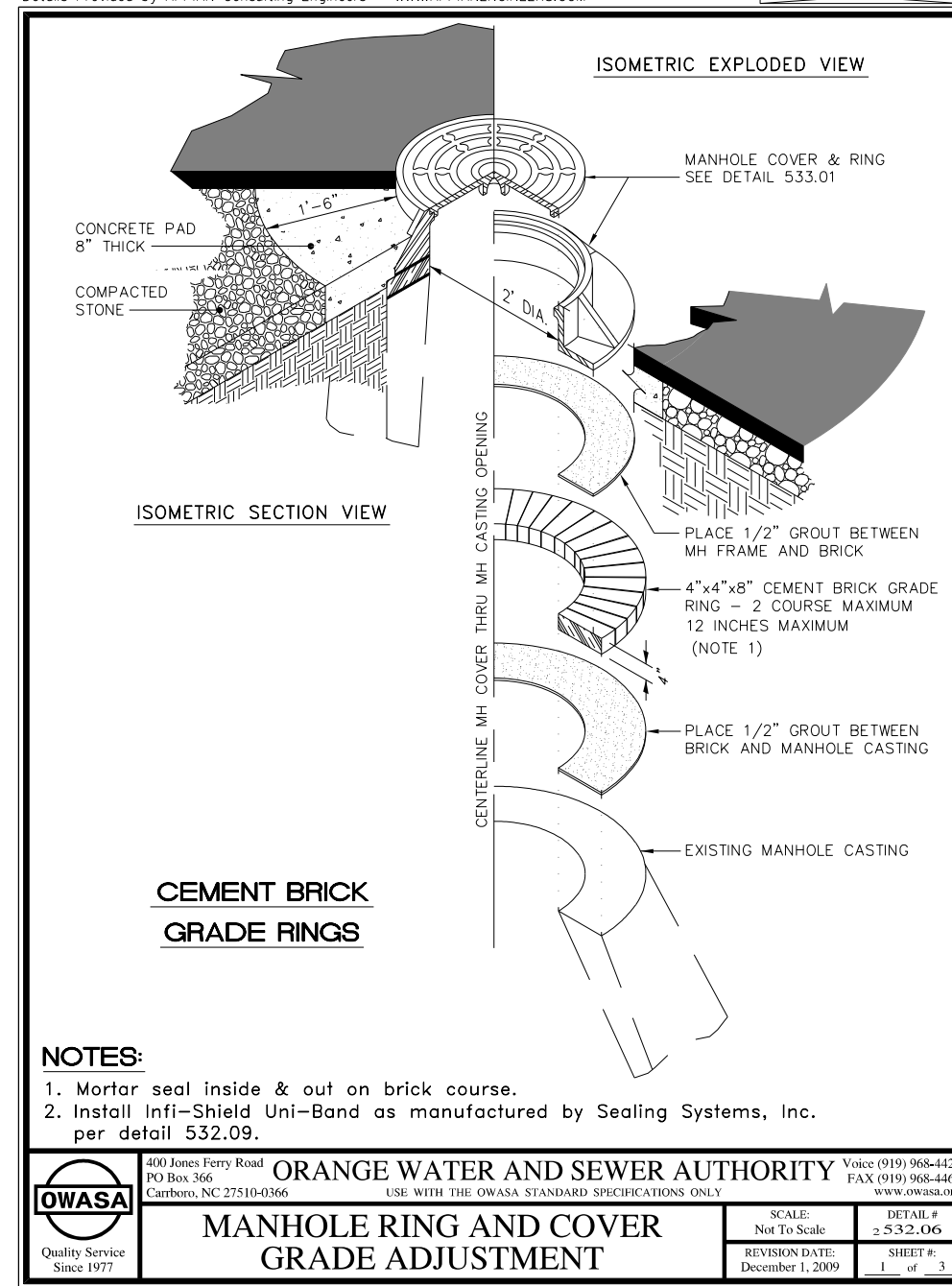
UTILITIES ENGINEERING SEC.  
PHONE: (919) 707-6690  
FAX: (919) 250-4151

## UTILITY CONSTRUCTION

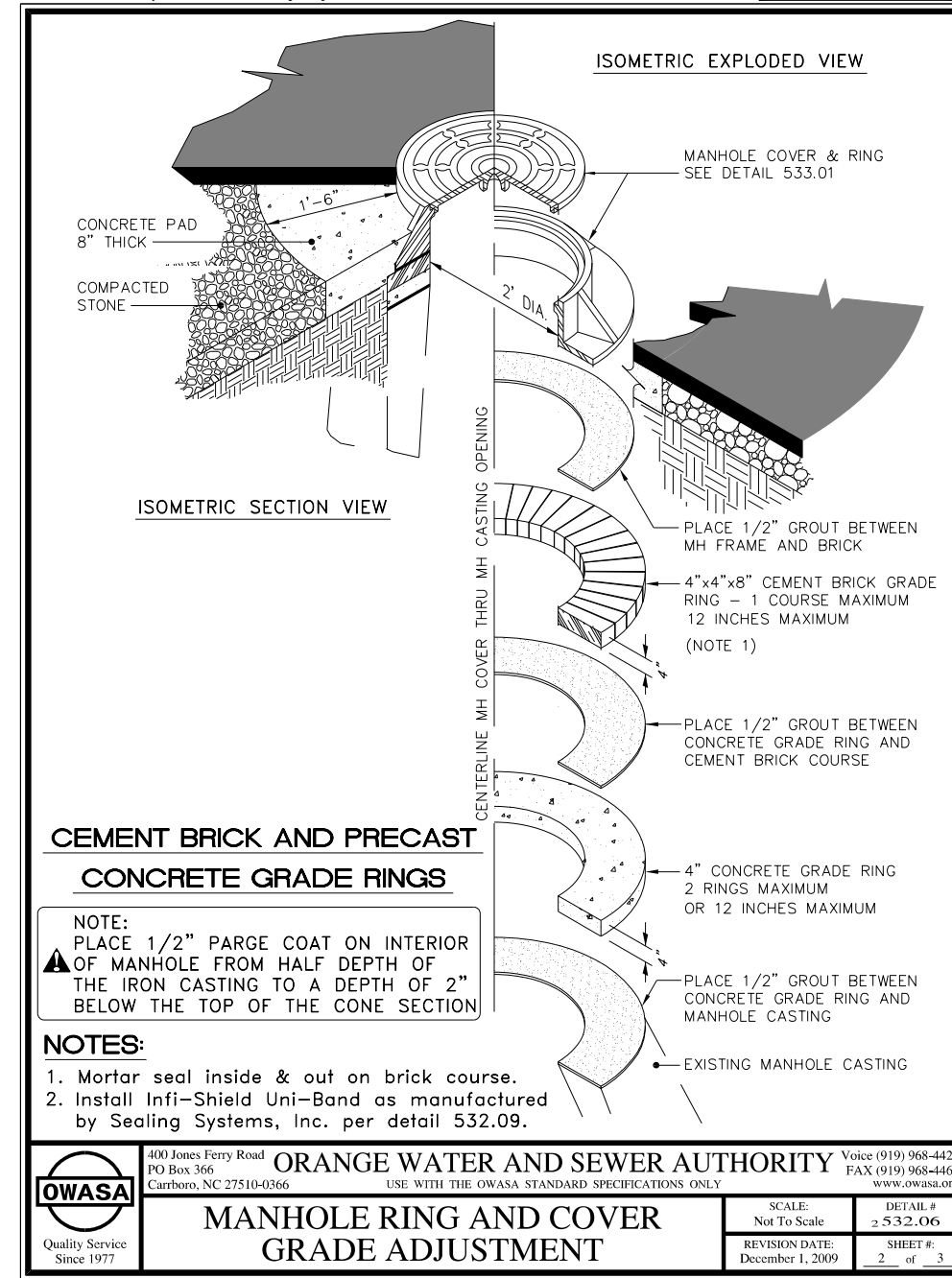
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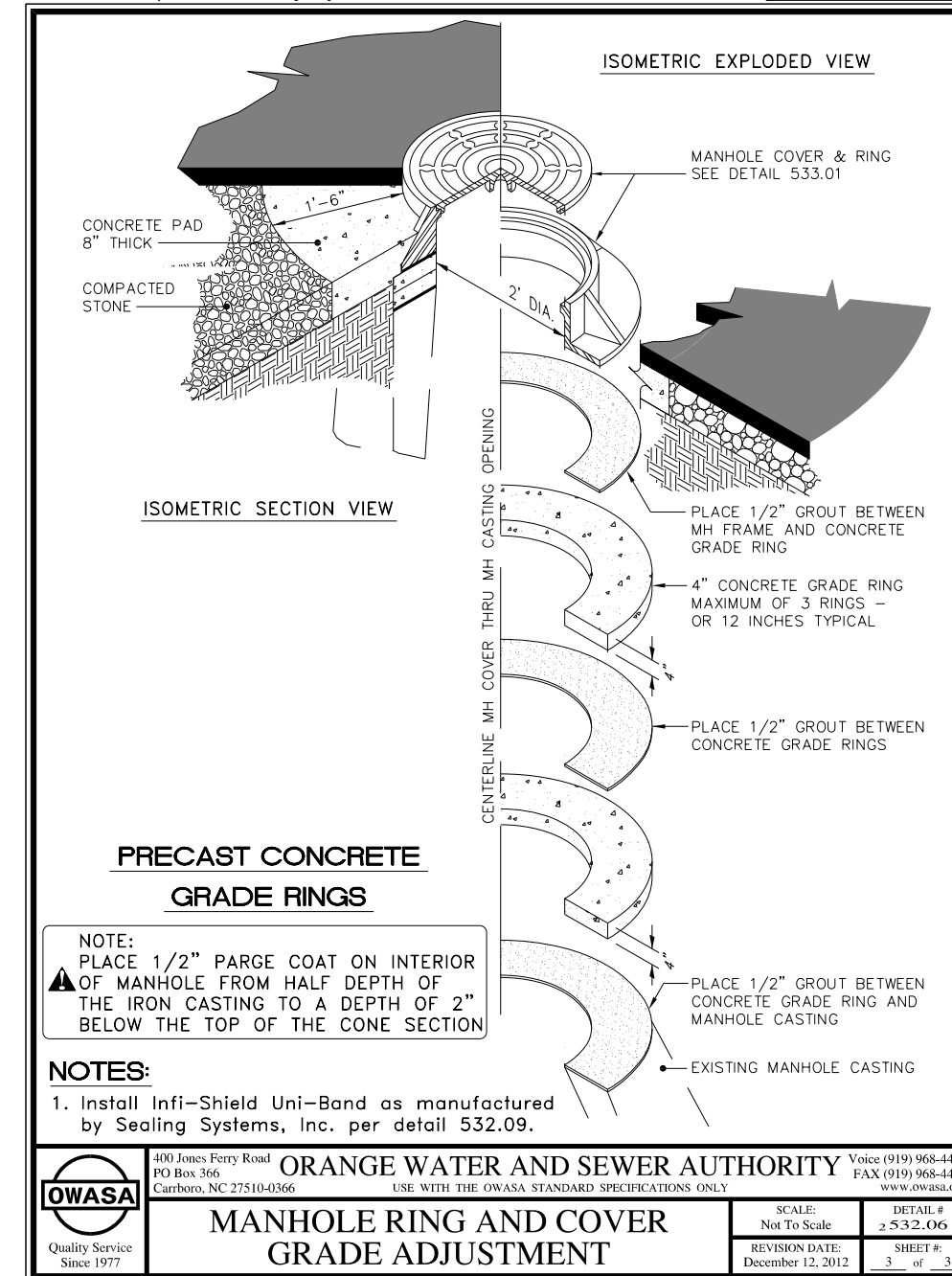
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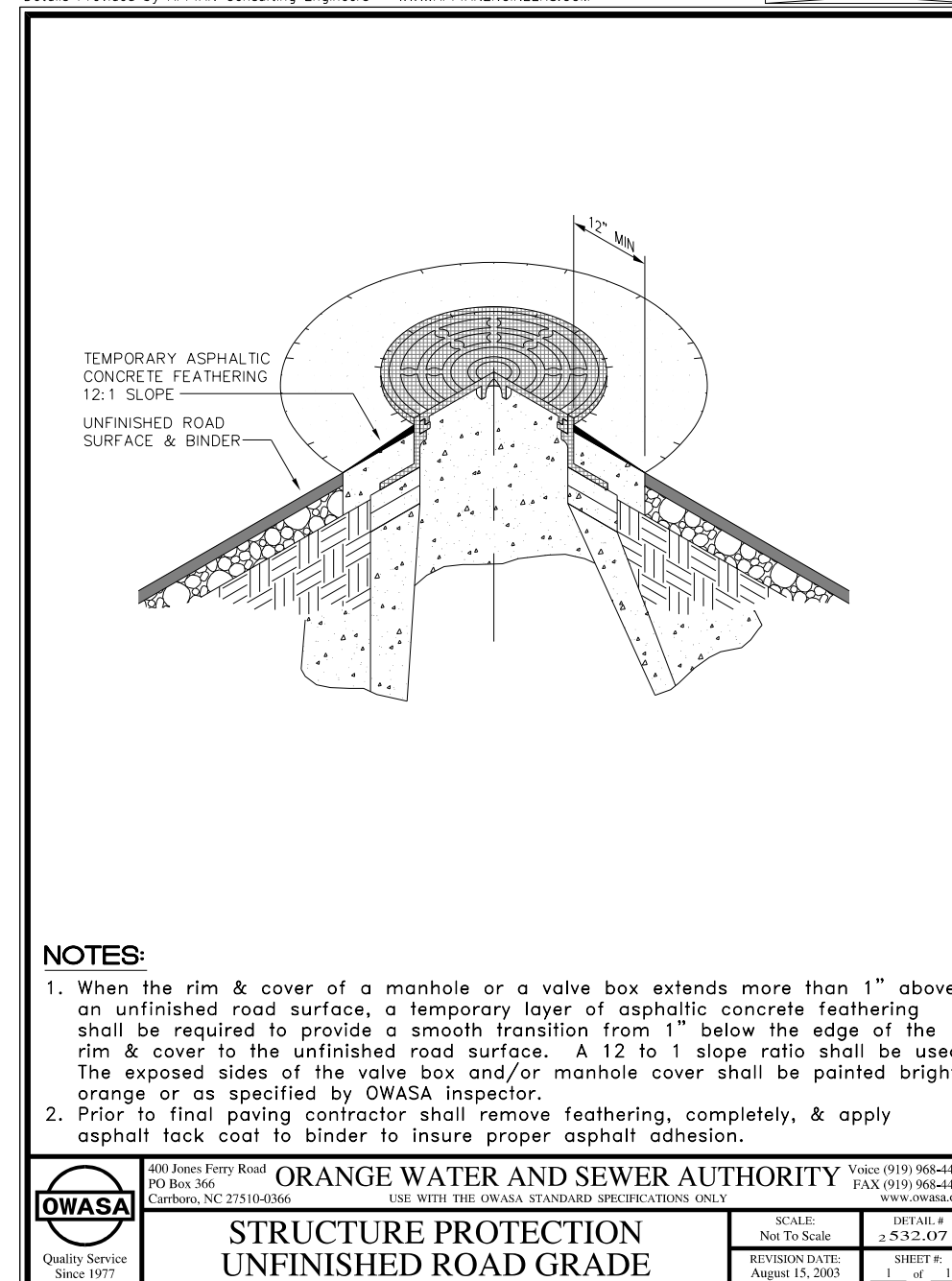
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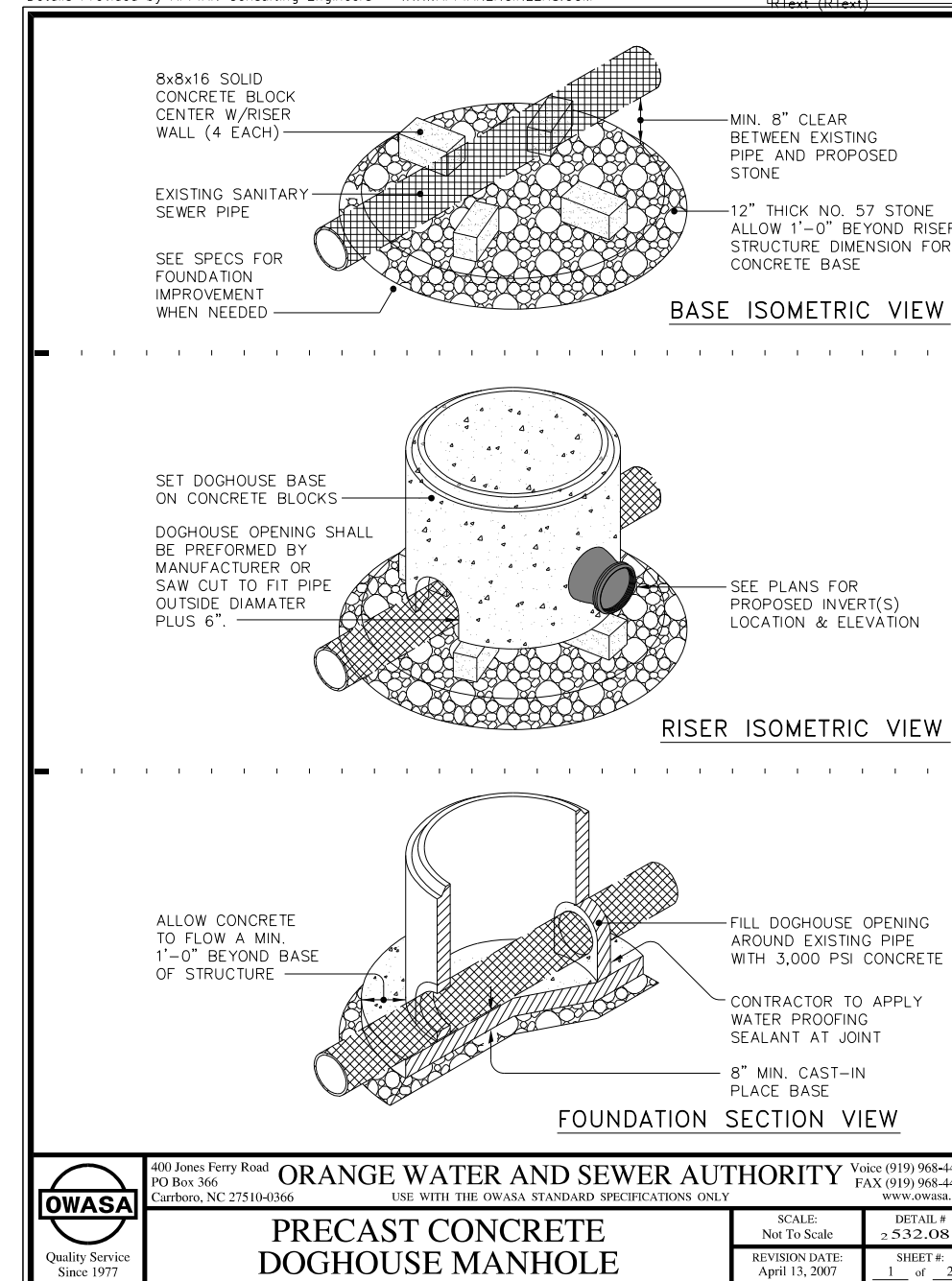
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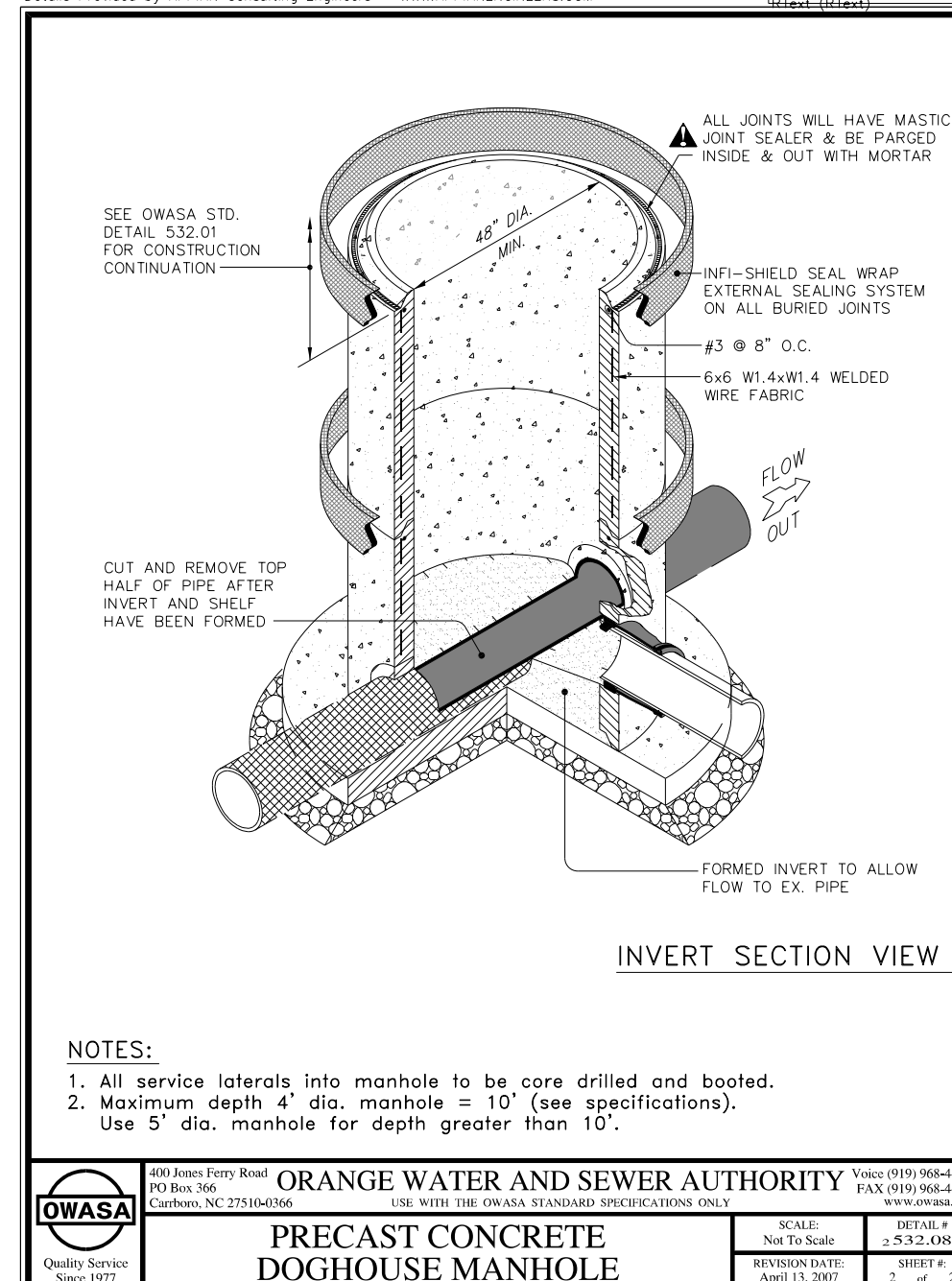
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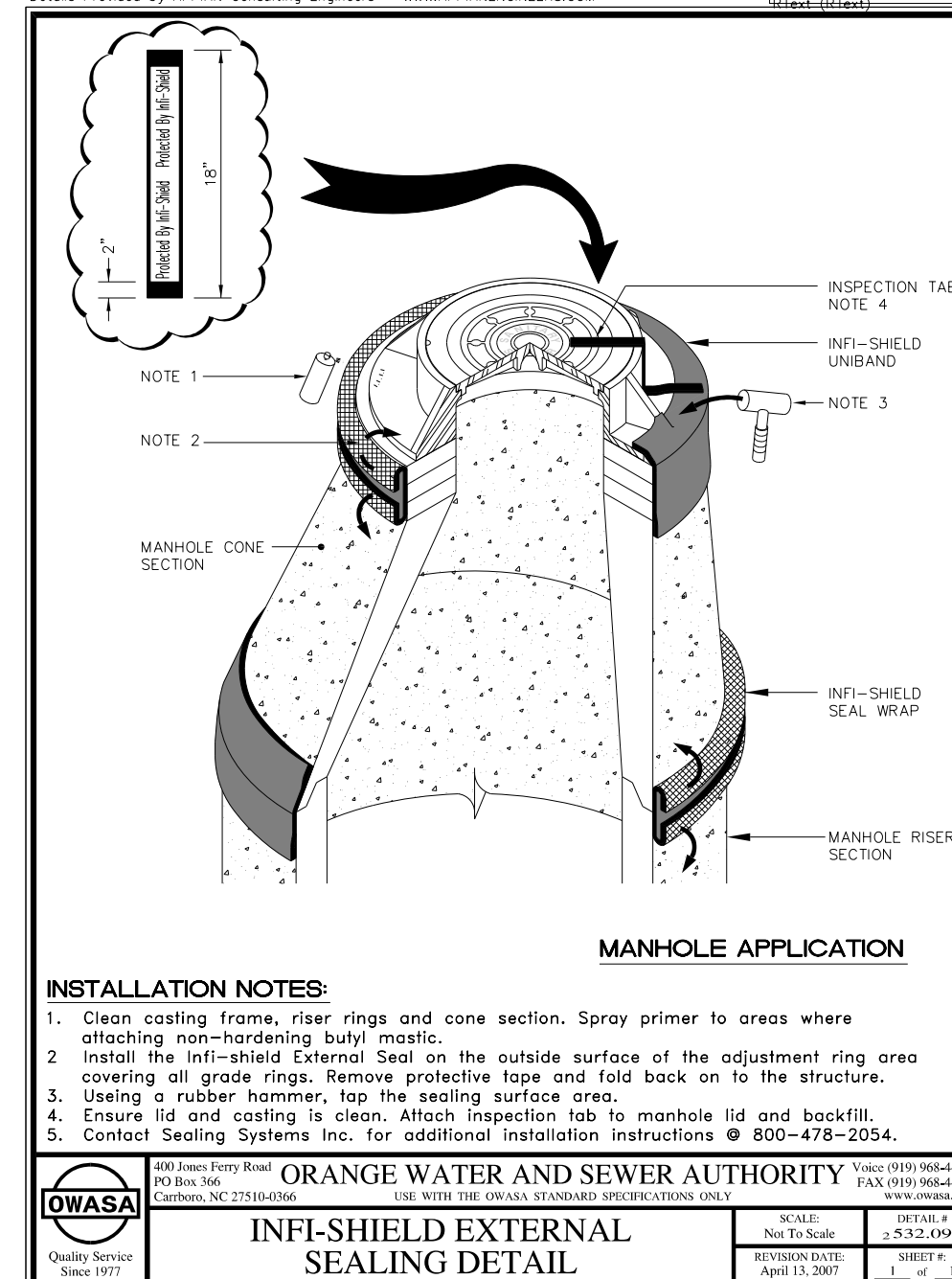
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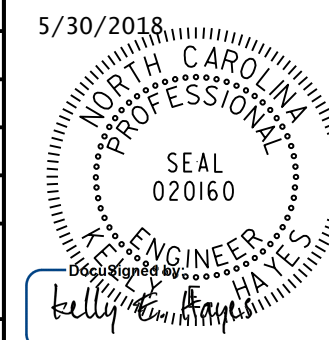



## PROJECT TYPICAL DETAILS

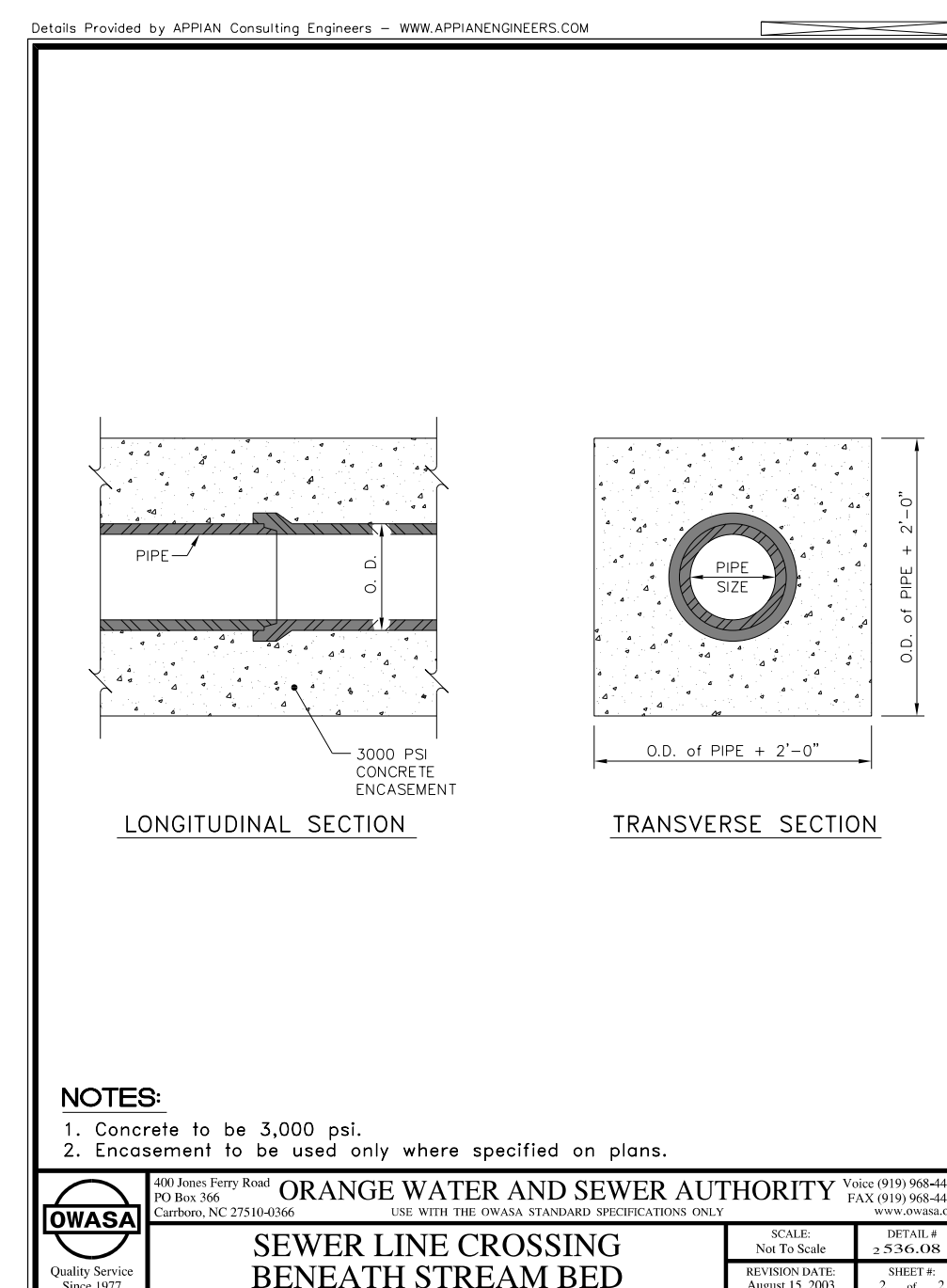
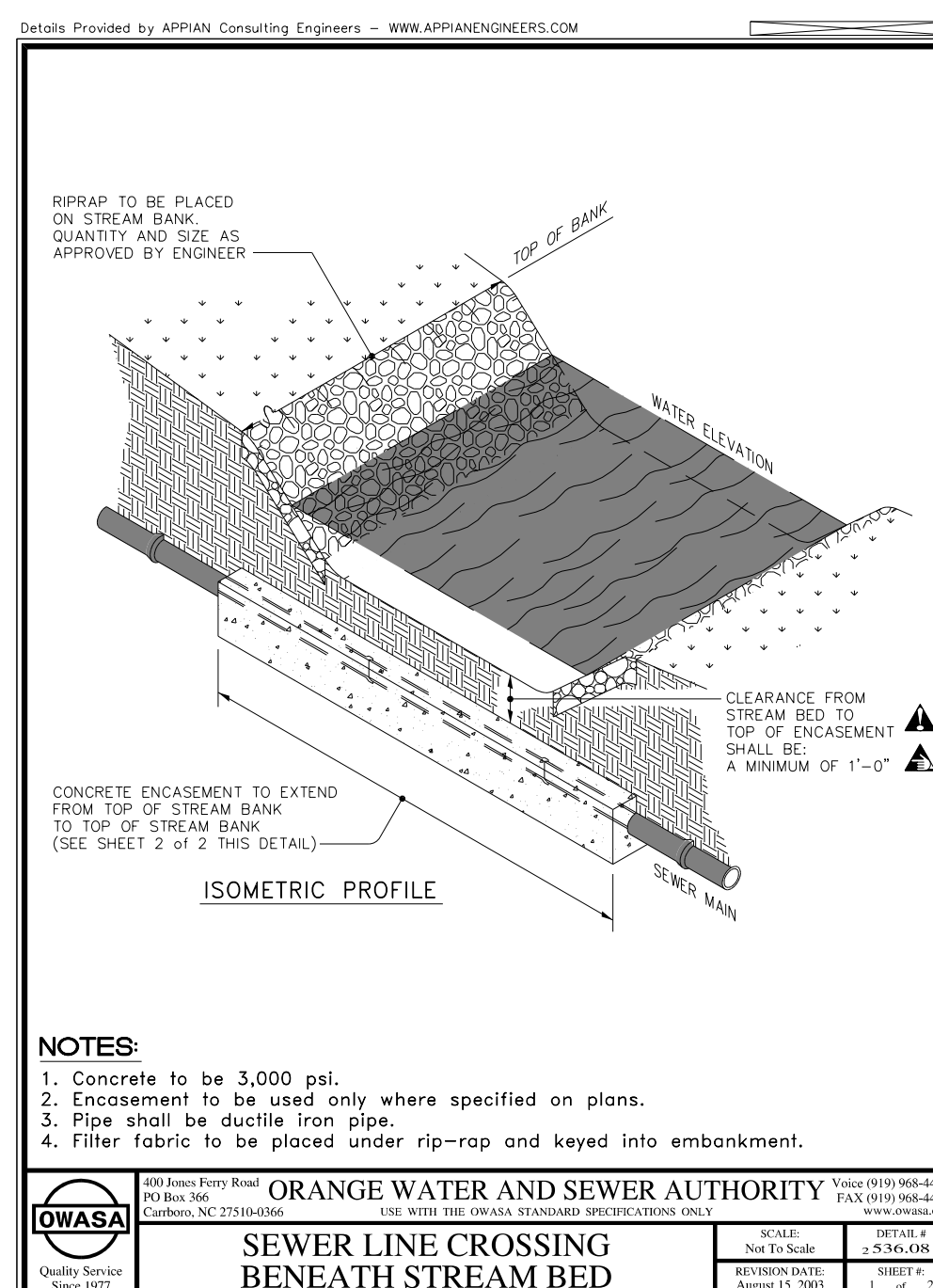
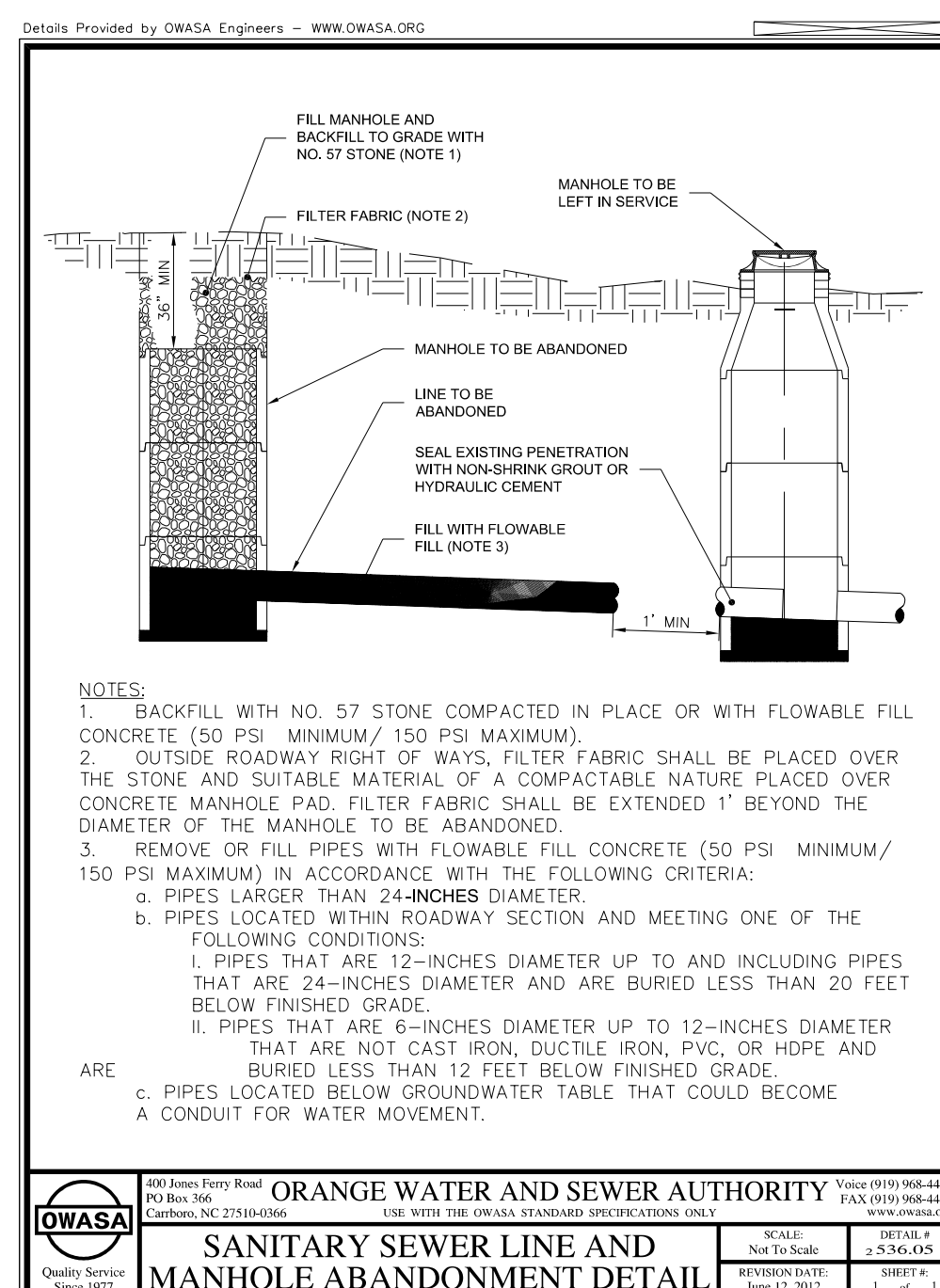
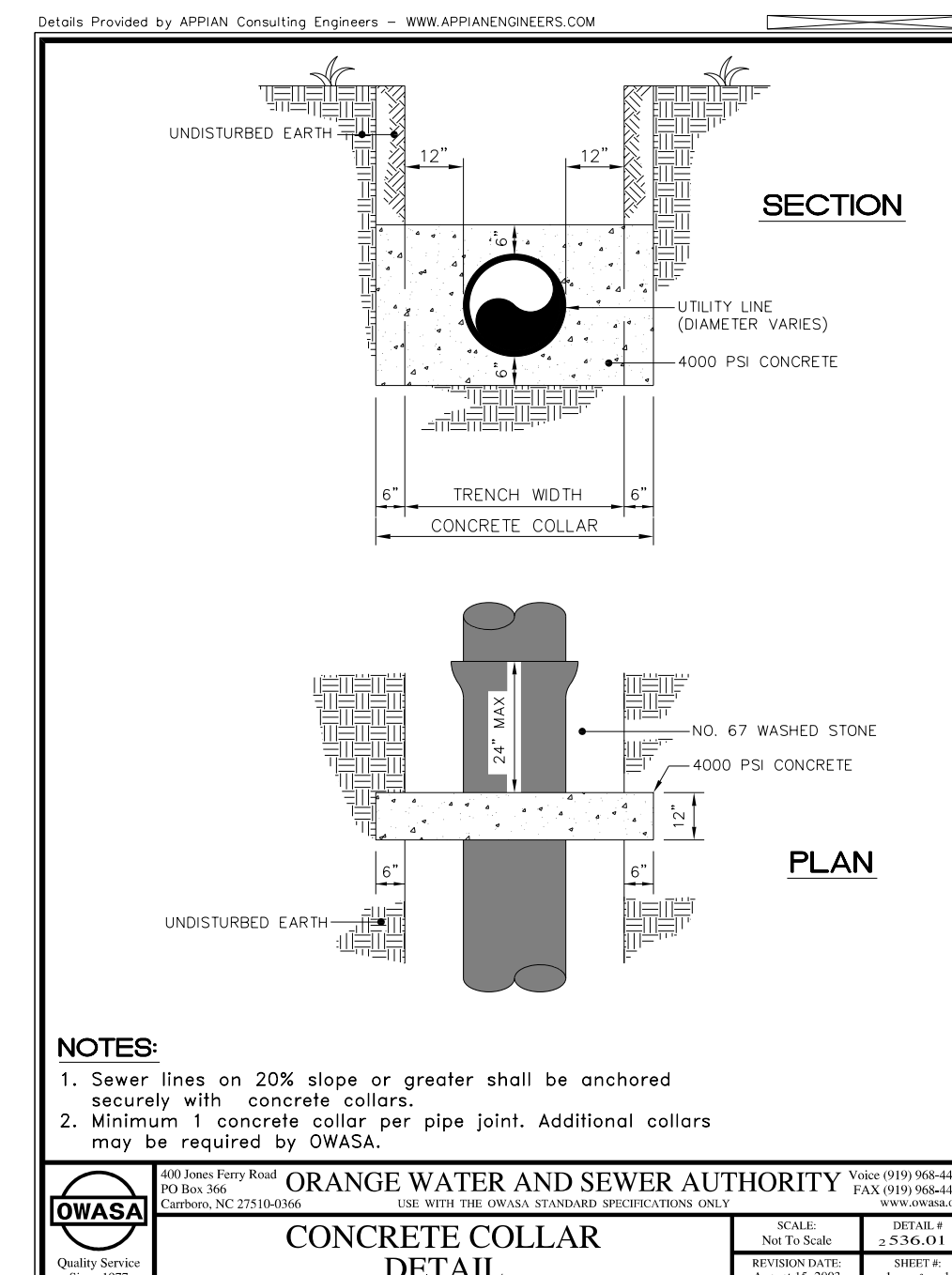
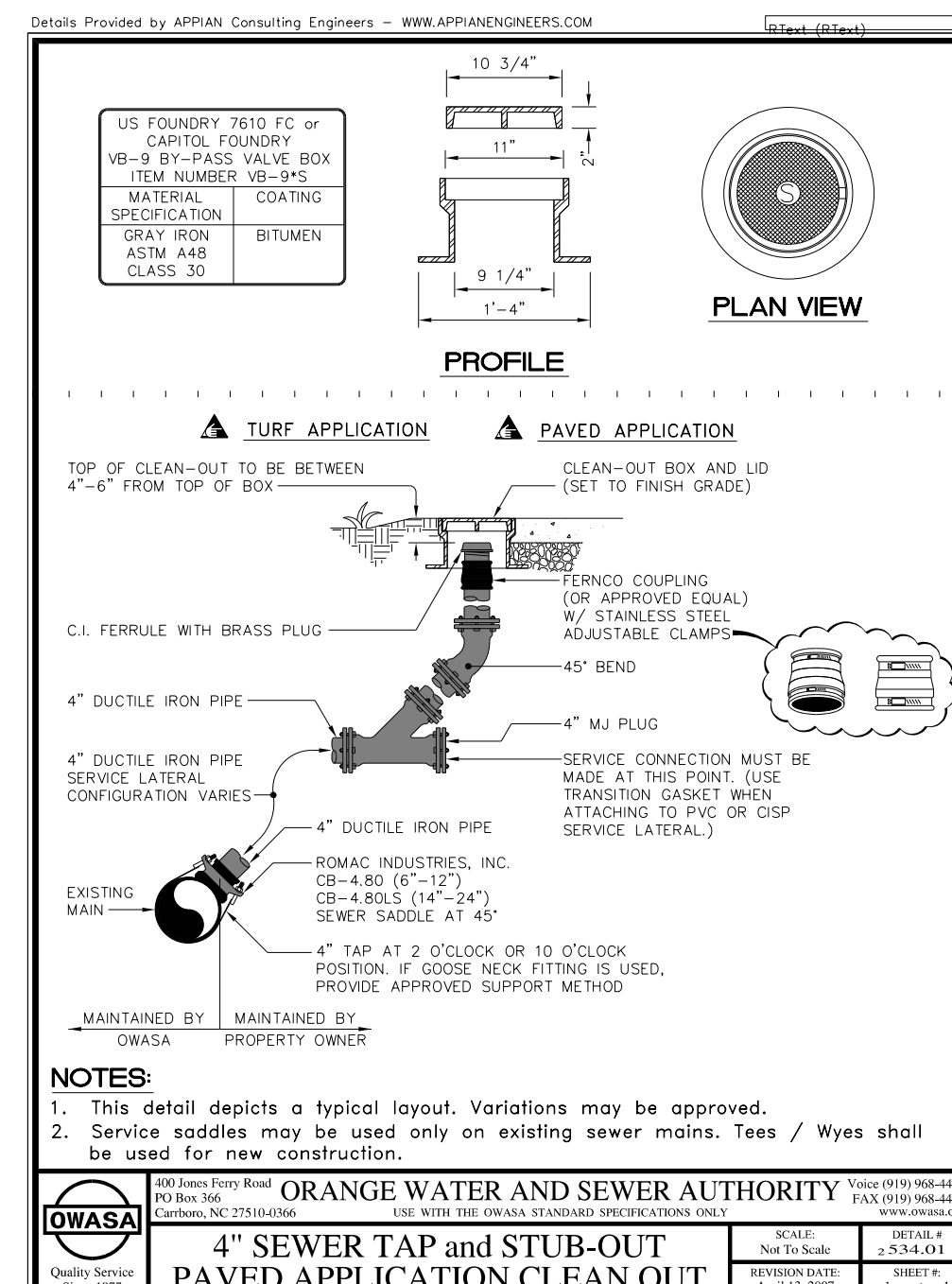
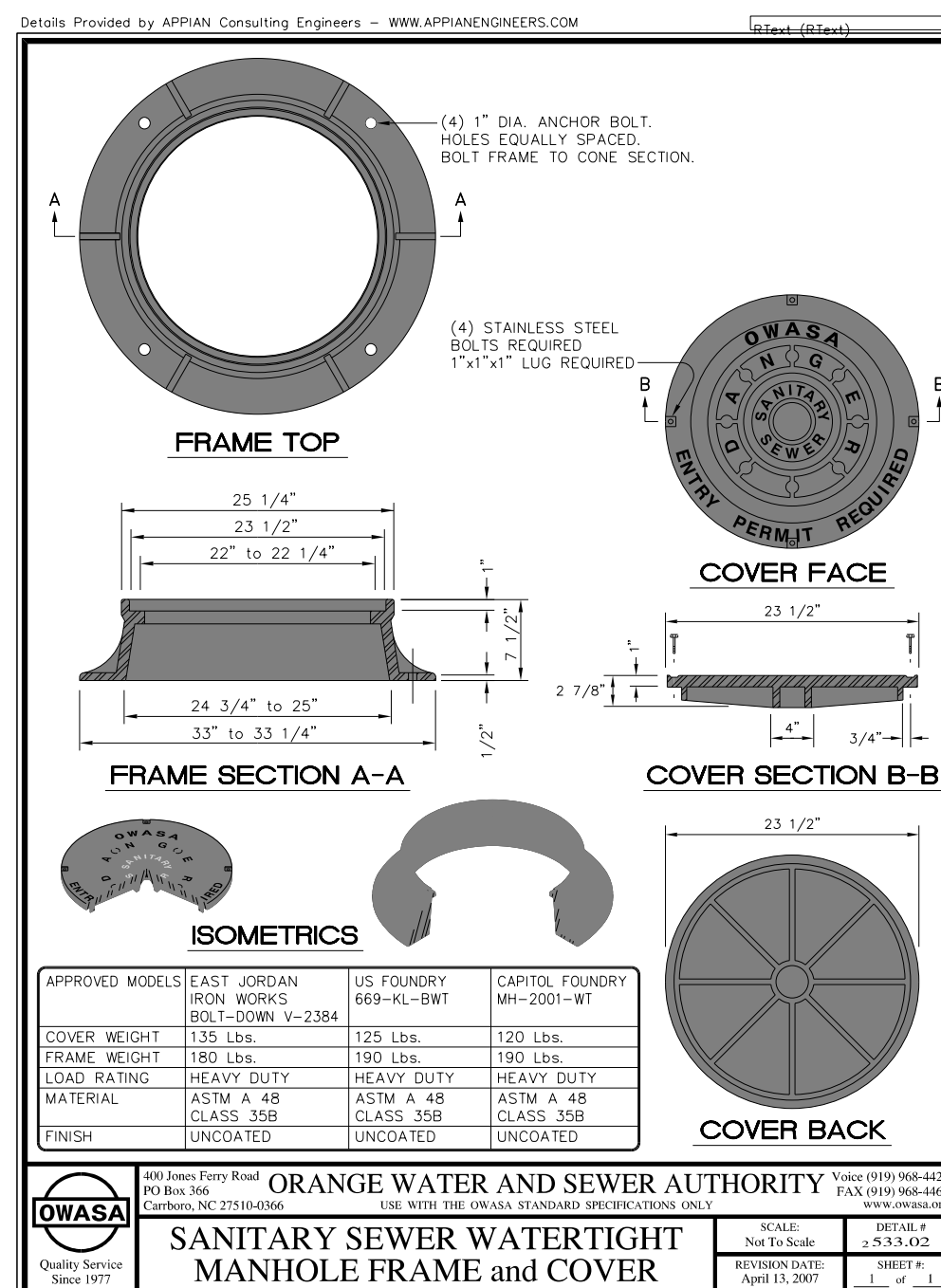
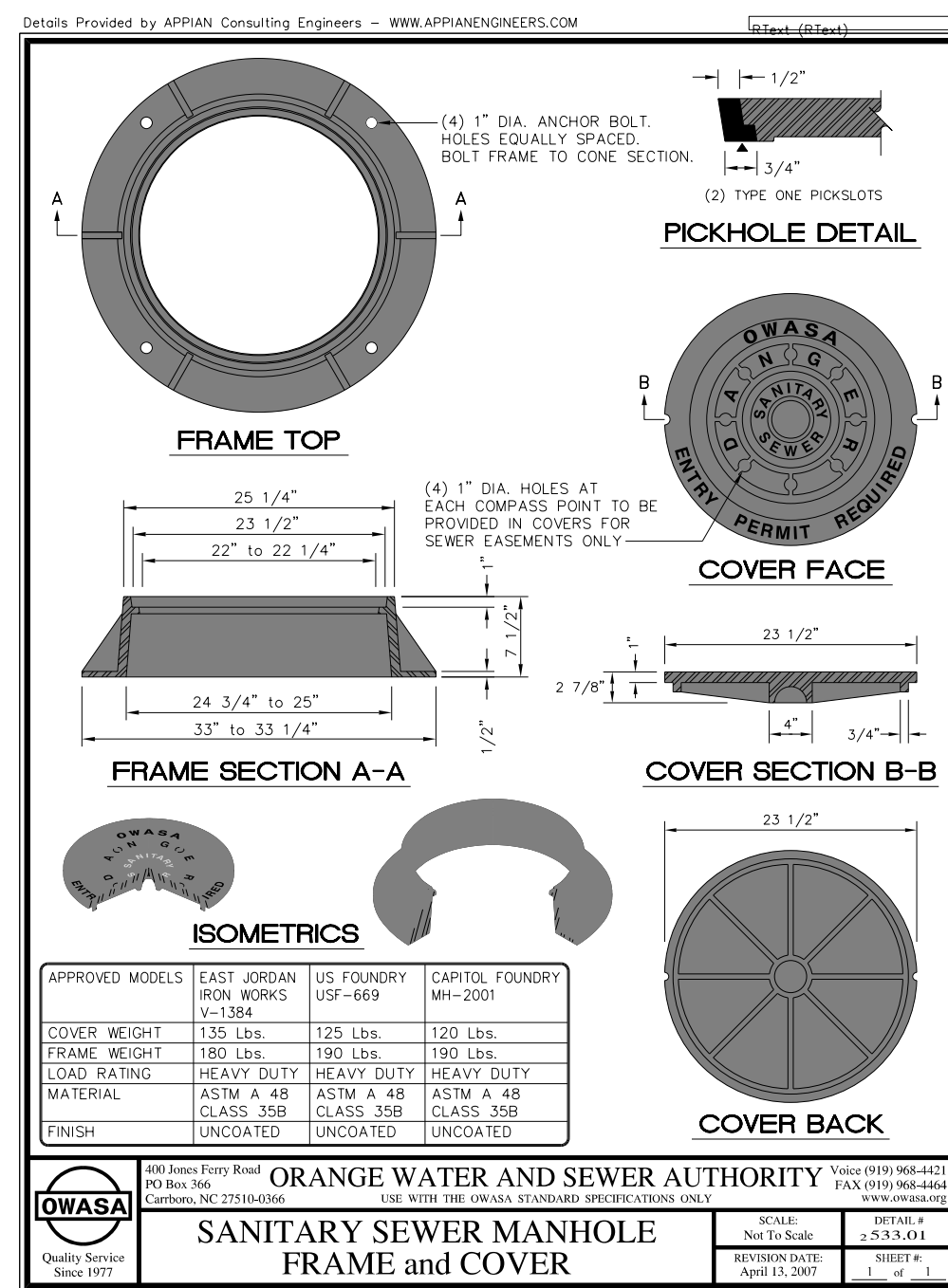
**SEPI**  
ENGINEERING &  
CONSTRUCTION

 1025 Wade Avenue  
Raleigh, NC 27605  
Tel: 919-789-9077  
Fax: 919-789-9091  
License: C-2197

 DOCUMENT NOT CONSIDERED FINAL  
UNTIL ALL SIGNATURES ARE COMPLETED

PROJECT REFERENCE NO.		SHEET NO.
U-5846		UC-3F
DESIGNED BY:	<div>5/30/2018</div> <div></div> <div>KELLY R. HAYS PROFESSIONAL ENGINEER STATE OF NORTH CAROLINA License No. 020160</div> <div></div> <div>UTILITY CONSTRUCTION PLANS ONLY</div>	
DRAWN BY:		
CHECKED BY:		
APPROVED BY:		
REVISED:		
<div>NORTH CAROLINA DEPARTMENT OF TRANSPORTATION</div> <div>UTILITIES ENGINEERING SEC. PHONE: (919) 707-6690 FAX: (919) 250-4151</div>		

## UTILITY CONSTRUCTION





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ENGINEERING &  
CONSTRUCTION

**DOCUMENT NOT CONSIDERED FINAL  
UNTIL ALL SIGNATURES ARE COMPLETED**

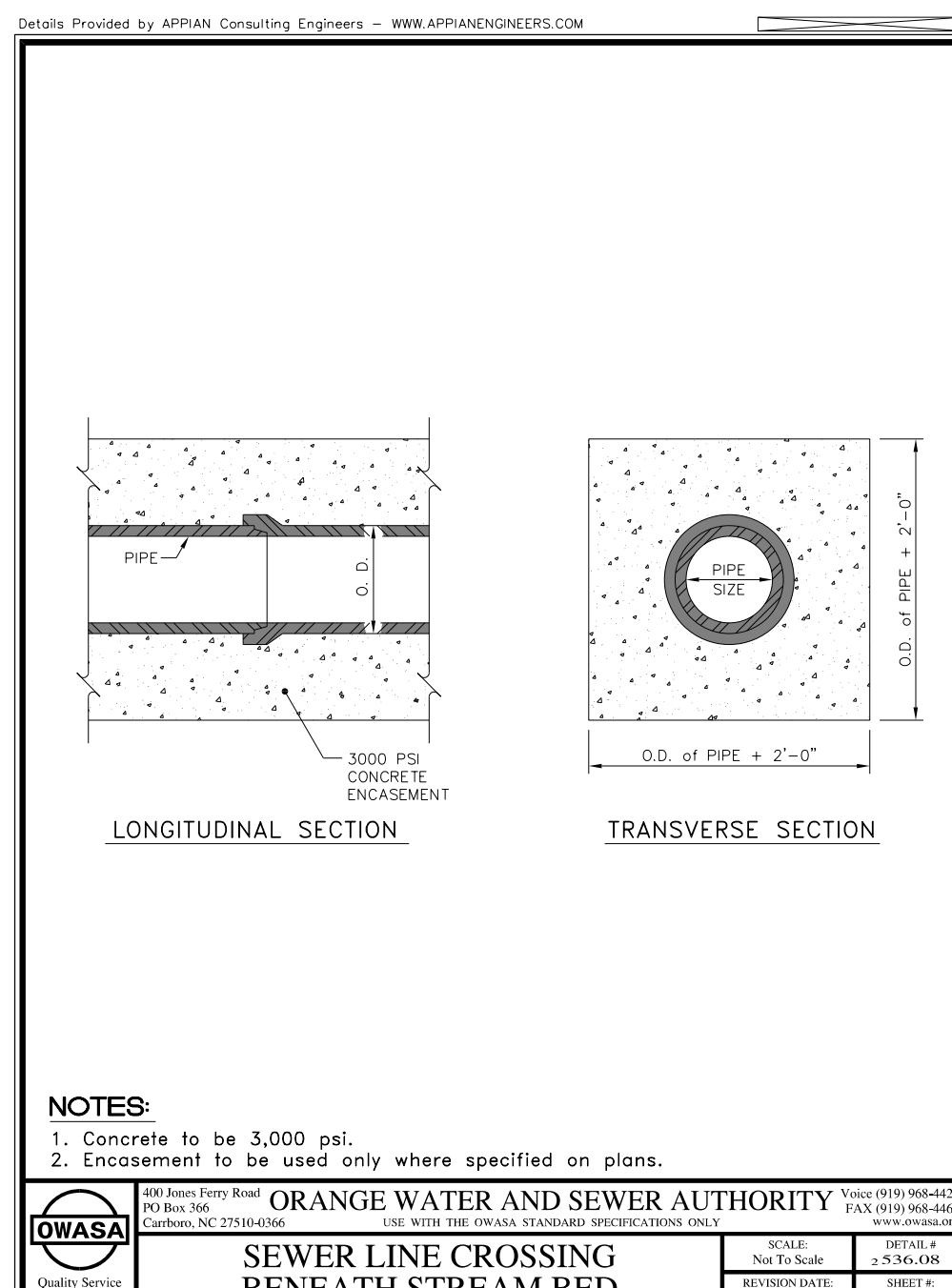
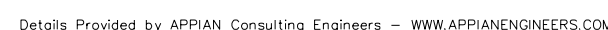
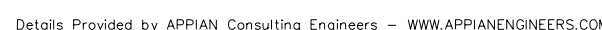
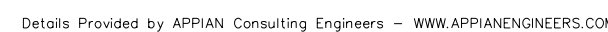
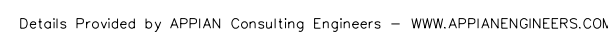
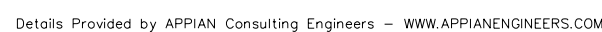
U - 5846

UC - 3F

5/30/2018

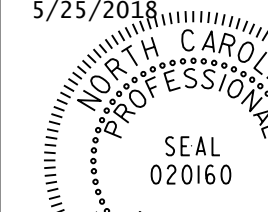
UTILITY CONSTRUCTION  
PLANS ONLY

Details Provided by APPIAN Consulting Engineers - [WWW.APPIANENGINEERS.COM](http://WWW.APPIANENGINEERS.COM)







PROJECT REFERENCE NO.		SHEET NO.
U-5846		UC-4
DESIGNED BY:	<div>5/25/2018 </div>	
DRAWN BY:		
CHECKED BY:		
APPROVED BY:		
REVISED:		
NORTH CAROLINA DEPARTMENT OF TRANSPORTATION		
UTILITIES ENGINEERING SEC. PHONE: (919) 707-6690 FAX: (919) 250-4151		UTILITY CONSTRUCTION PLANS ONLY

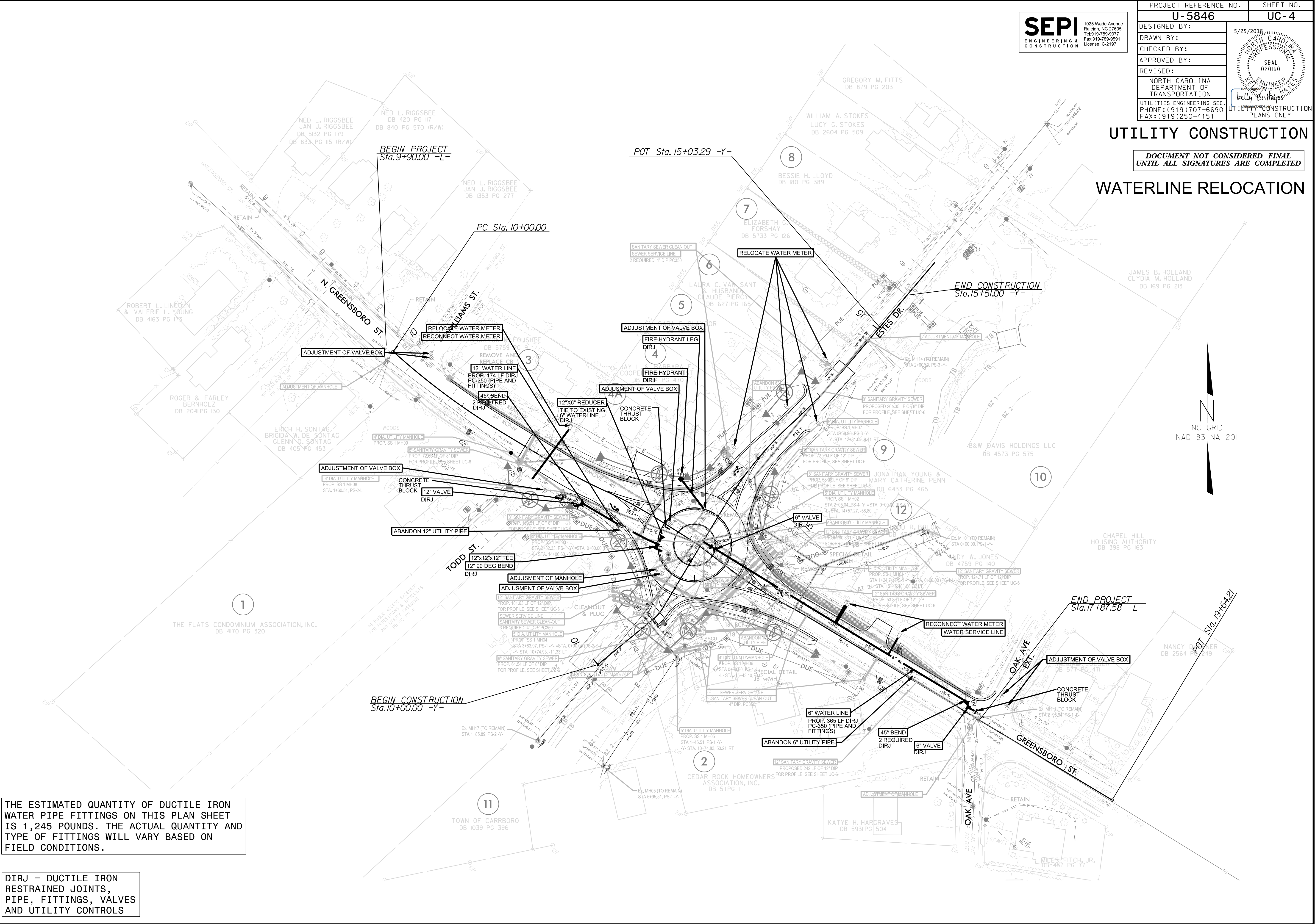
UTILITY CONSTRUCTION

DOCUMENT NOT CONSIDERED FINAL  
UNTIL ALL SIGNATURES ARE COMPLETED

WATERLINE RELOCATION

THE ESTIMATED QUANTITY OF DUCTILE IRON WATER PIPE FITTINGS ON THIS PLAN SHEET IS 1,245 POUNDS. THE ACTUAL QUANTITY AND TYPE OF FITTINGS WILL VARY BASED ON FIELD CONDITIONS.

DIRJ = DUCTILE IRON  
RESTRAINED JOINTS,  
PIPE, FITTINGS, VALVES  
AND UTILITY CONTROLS






8/17/99  
5/25/2018  
U-5846.Ut.rdy4\_UC04\_A.dgn  
TOWN OF CARRBORO

SEPI

ENGINEERING & CONSTRUCTION

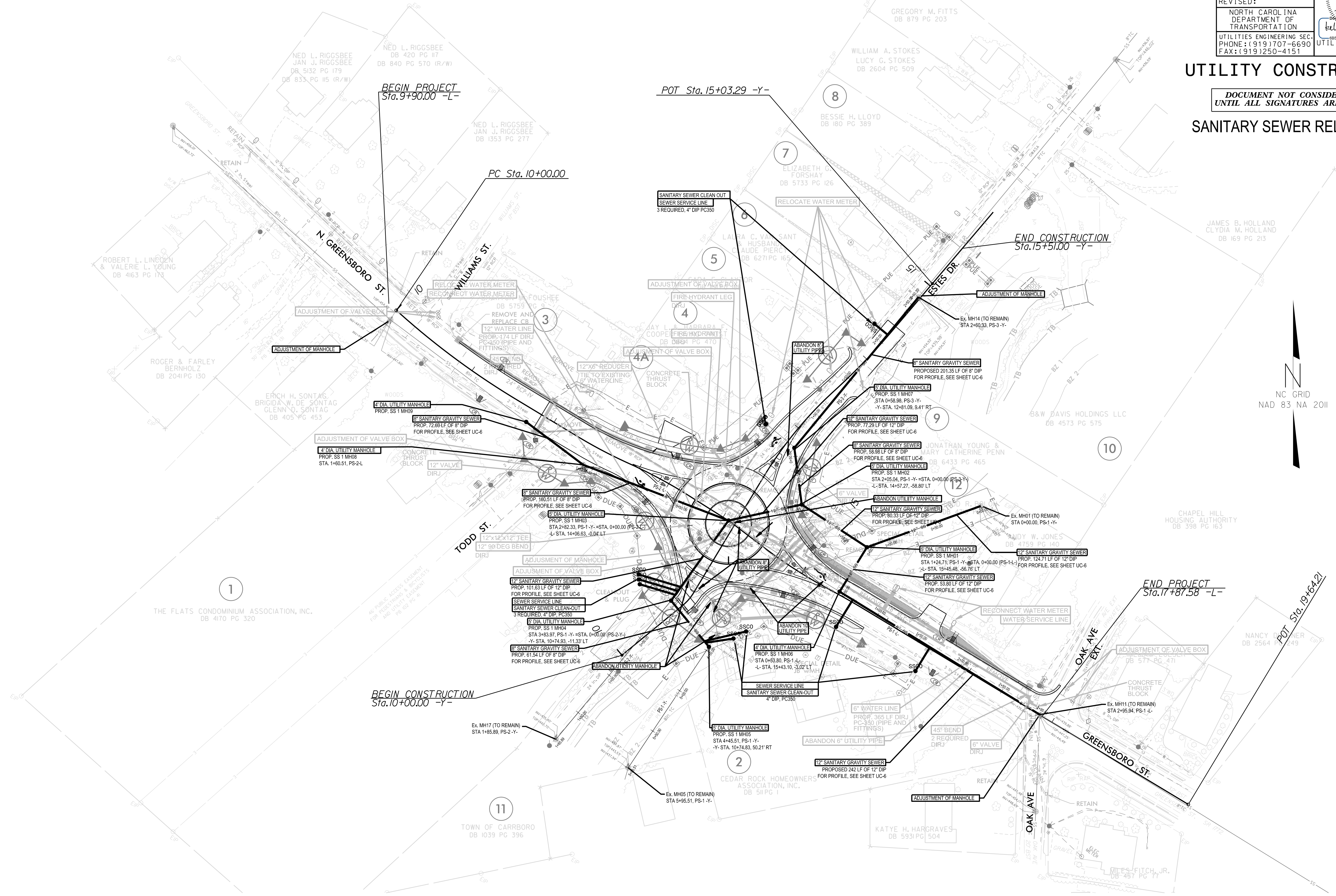
1025 Wade Avenue  
Raleigh, NC 27605  
Tel: 919-789-9977  
Fax: 919-789-9991  
License: C-2197

PROJECT REFERENCE NO.		SHEET NO.
U-5846		UC-4A
DESIGNED BY:	<div>5/25/2018</div> <div></div>	
DRAWN BY:		
CHECKED BY:		
APPROVED BY:		
REVISED:		
NORTH CAROLINA DEPARTMENT OF TRANSPORTATION		
UTILITIES ENGINEERING SEC. PHONE: (919) 707-6690 FAX: (919) 250-4151		UTILITY CONSTRUCTION PLANS ONLY

UTILITY CONSTRUCTION

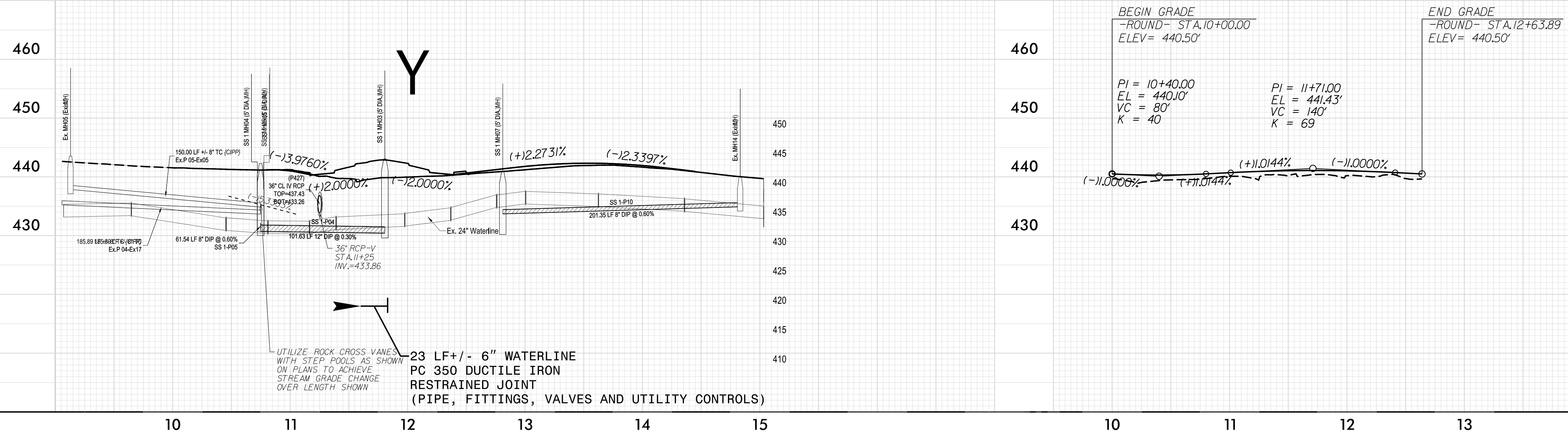
DOCUMENT NOT CONSIDERED FINAL  
UNTIL ALL SIGNATURES ARE COMPLETED

SANITARY SEWER RELOCATION





5/25/2018  
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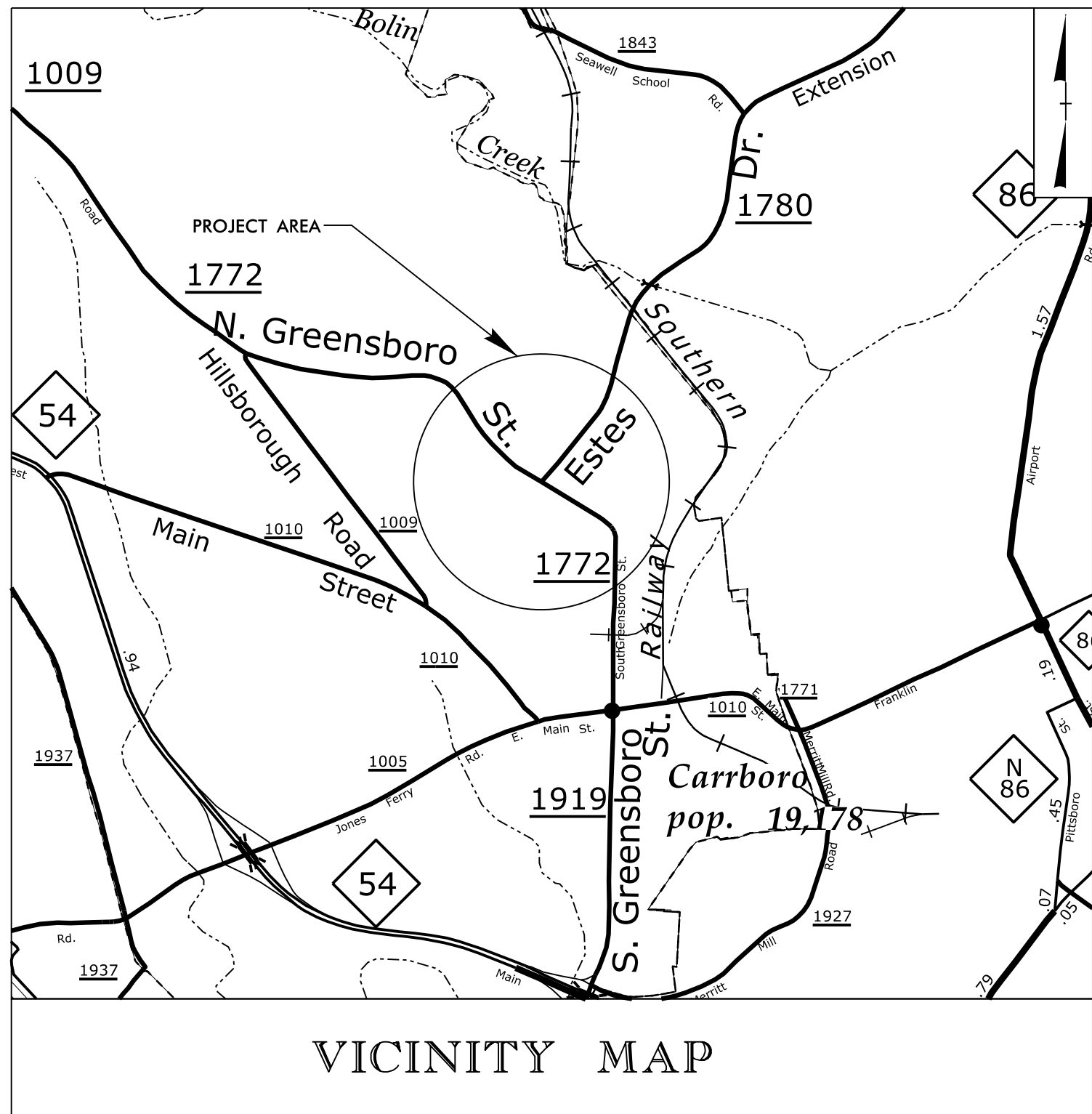






5/30/2018 11:21:00 AM \\proj\U-5846\_U-1.sh U001.dgn USER:thorntis

PROJECT: **U-5846**  
CONTRACT: **DG00420**



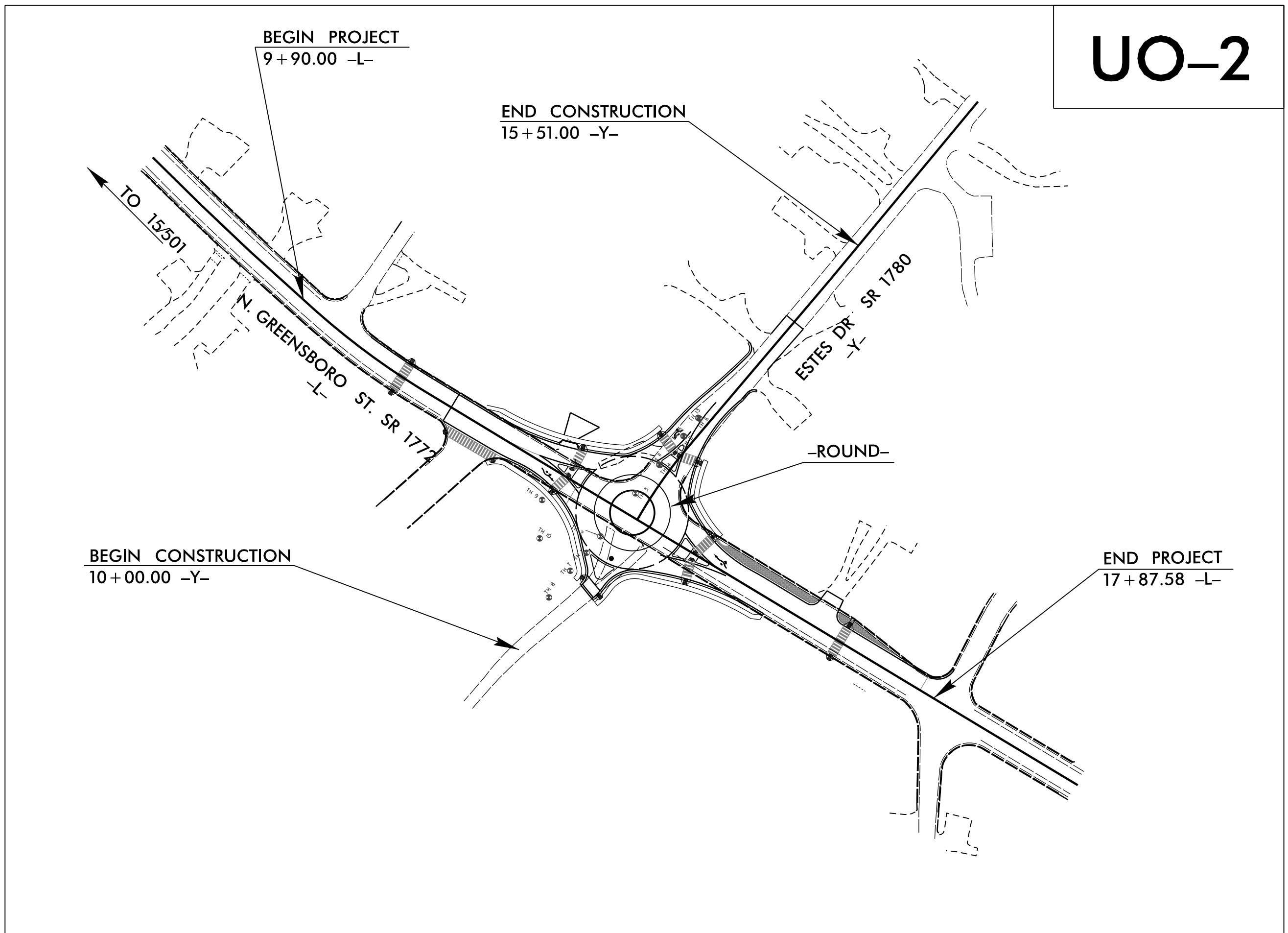
VICINITY MAP

STATE OF NORTH CAROLINA  
DIVISION OF HIGHWAYS

**UTILITY BY OTHERS PLANS  
ORANGE COUNTY**

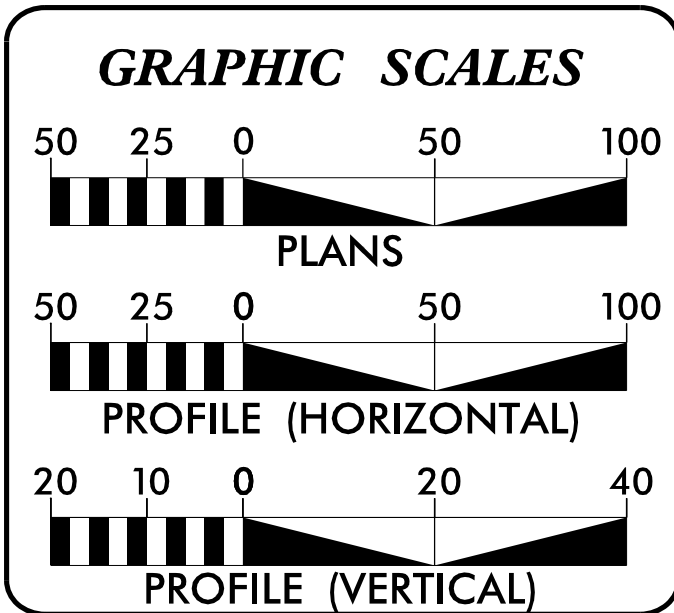
**LOCATION: SR 1772 (GREENSBORO STREET) AT SR 1780 (ESTES DRIVE)  
IN CARRBORO, CONSTRUCT ROUNDABOUT.**

**TYPE OF WORK: ELECTRIC POWER DISTRIBUTION, GAS, TELEPHONE, CABLE TV**



**UO-2**

NAD 83/NA 2011



**INDEX OF SHEETS**

SHEET NO.	DESCRIPTION
UO-1	TITLE SHEET
UO-2	UTILITY BY OTHERS SHEET

**UTILITY OWNERS ON PROJECT**

- (1) DUKE ENERGY - POWER (DISTRIBUTION)
- (2) PSNC - GAS (DISTRIBUTION)
- (3) AT&T - (COMMUNICATIONS)
- (4) CHARTER COMMUNICATIONS - (COMMUNICATIONS)
- (5) TOWN OF CHAPEL HILL - (COMMUNICATIONS)

Prepared In the Office of:

**SEPI**  
ENGINEERING &  
CONSTRUCTION

1025 Wade Avenue  
Raleigh, NC 27605  
Tel: 919-789-9977  
Fax: 919-789-9591  
License: C-2197

Don Langley DIVISION 7 UTILITY COORDINATOR  
Kelly Hayes, PE, PLS UTILITIES COORDINATION CONSULTANT

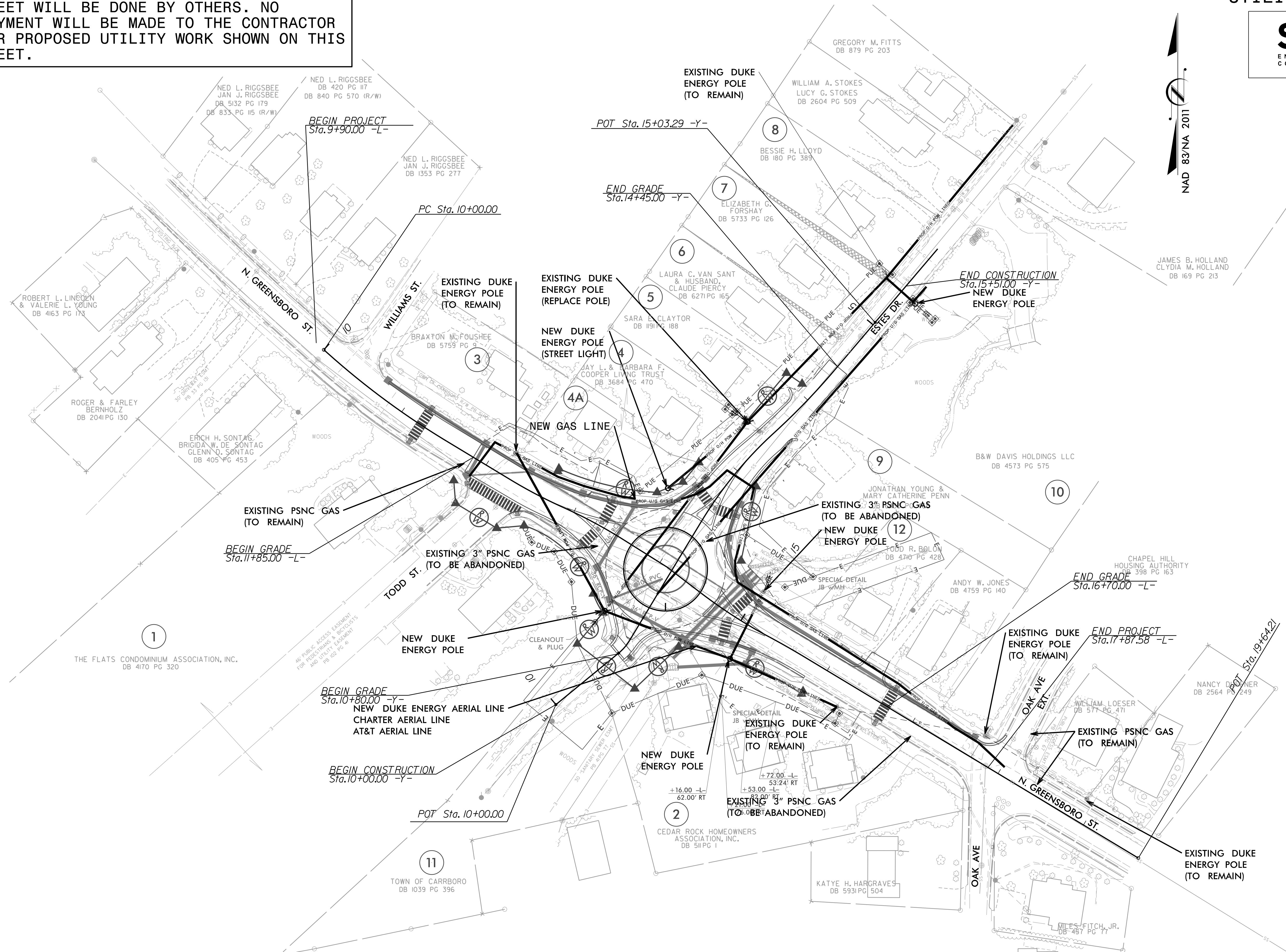


# UTILITIES BY OTHERS

**SEPI**  
ENGINEERING &  
CONSTRUCTION

1025 Wade Avenue  
Raleigh, NC 27605  
Tel: 919-789-9977  
Fax: 919-789-9591  
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NOTE:  
ALL PROPOSED UTILITY WORK SHOWN ON THIS SHEET WILL BE DONE BY OTHERS. NO PAYMENT WILL BE MADE TO THE CONTRACTOR FOR PROPOSED UTILITY WORK SHOWN ON THIS SHEET.



NAD 83/NA 2011

8/17/99

5/30/2018  
U-5846\_U0-2.dgn  
U002.dgn